

4001

Arg Thr Met Leu His Phe Thr Ser Asp Gln Phe Val Gln Trp Leu Gly
 1 5 10 15
 Ile Tyr Phe Trp Pro Met Leu Arg Ile Met Ala Leu Ile Ser Thr Ala
 20 25 30
 Pro Ile Leu Ser Glu Lys Ser Val Pro Lys Arg Val Lys Ile Gly Leu
 35 40 45
 Gly Met Val Ile Thr Ile Ile Val Ala Pro Ser Leu Pro Ala Val Asp
 50 55 60
 Ile Pro Ile Phe Ser Pro Asn Ala Ile Trp Ile Ala Leu Gln Gln Val
 65 70 75 80
 Met Ile Gly Val Ala Val Gly Phe Thr Met Gln Leu Ala Phe Ala Ala
 85 90 95
 Val Arg Thr Ala Gly Glu Leu Ile Gly Leu Gln Met Gly Leu Ser Phe
 100 105 110
 Ala Thr Phe Val Asp Pro Gly Ser His Leu Asn Met Pro Val Leu Ala
 115 120 125
 Arg Ile Ile Asp Leu Leu Ala Met Leu Leu Phe Leu Ser Phe Asn Gly
 130 135 140
 His Leu Trp Leu Ile Ser Met Leu Val Asp Thr Phe His Thr Leu Pro
 145 150 155 160
 Ile Gly Asp Asn Pro Val Asn Ser Asn Ala Phe Leu Ala Leu Val Arg
 165 170 175
 Ala Ala Gly Leu Ile Phe Leu Asn Gly Leu Met Leu Ala Leu Pro Ile
 180 185 190
 Ile Thr Leu Leu Leu Thr Val Asn Leu Ala Leu Gly Leu Leu Asn Arg
 195 200 205
 Met Ala Pro Gln Leu Ser Val Phe Val Ile Gly Phe Pro Val Thr Leu
 210 215 220
 Thr Val Gly Leu Leu Leu Met Ser Leu Leu Met Pro Leu Ile Ala Pro
 225 230 235 240
 Phe Cys Glu His Leu Phe Ser Glu Ile Phe Asn Leu Leu Ala Asp Ile
 245 250 255
 Val Ser Glu Leu Pro Arg Lys
 260

<210> 8166

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 8166

Gly Tyr Ala Met Ser Thr Ile Ile Met Asp Leu Cys Arg Tyr Thr Arg
 1 5 10 15
 Leu Gly Leu Thr Gly Tyr Leu Ala Ser Arg Gly Val Arg Lys Arg Asp
 20 25 30
 Ile Asn Asp Ala His Thr Val Glu Leu Ala Ala Cys Asp Ala
 35 40 45
 His Lys Pro Gly Val Val Phe Ile Asn Glu Asp Cys Phe Ile His Asp
 50 55 60
 Pro Ala Asn Ser Gln His Ile Lys Gln Ile Ile Asn Gln His Pro Lys
 65 70 75 80
 Thr Leu Phe Ile Val Phe Met Ala Ile Ala Asn Ile His Phe Asp Glu
 85 90 95
 Tyr Leu Leu Val Arg Lys Asn Leu Leu Ile Ser Ser Lys Ser Ile Lys
 100 105 110
 Pro Glu Ser Leu Asp Asp Ile Leu Gly Asp Tyr Leu Asn Lys Glu Val
 115 120 125
 Lys Asn Val Gly Ala Ile Asn Leu Pro Thr Leu Ser Leu Ser Arg Thr
 130 135 140
 Glu Ser Ser Met Leu Arg Met Trp Met Ala Gly Gln Gly Thr Ile Gln
 145 150 155 160

 JC530 U.S. PTO
 09/252691


Ile Ser Asp Gln Met Asn Ile Lys Ala Lys Thr Val Ser Ser His Lys
 165 170 175
 Gly Asn Ile Lys Arg Lys Ile Lys Thr His Asn Lys Gln Val Ile Tyr
 180 185 190
 His Val Val Arg Leu Thr Asp Asn Val Thr Asn Gly Ile Phe Val Asn
 195 200 205
 Met Arg
 210

<210> 8167
 <211> 309
 <212> PRT
 <213> Enterobacter cloacae

<400> 8167
 Ile Leu Val Met Ser Ile Asn Leu Arg Arg Val Trp Val Cys Arg Asp
 1 5 10 15
 Arg Phe His Leu Asn Gly Ala Ser Met Pro Ile Phe Phe Lys Ile Phe
 20 25 30
 Leu Arg Lys Asn His His Pro Gly Asp Ile Met Pro Ser Leu Glu Glu
 35 40 45
 Thr Leu Leu Val Phe Thr Asp Leu Asp Gly Thr Leu Leu Asp Phe His
 50 55 60
 Thr Leu Asp Trp Gln Pro Ala Ala Pro Trp Leu Glu Lys Leu Met Asp
 65 70 75 80
 Glu Gln Ile Pro Val Ile Leu Cys Ser Ser Lys Thr Ala Ser Glu Met
 85 90 95
 Asp Asp Ile Gln Gln Glu Leu Gly Leu Gly Gly Leu Pro Tyr Ile Ala
 100 105 110
 Glu Asn Gly Ala Val Ile Gln Pro Asp Val Arg Trp Glu Asn Ala Ala
 115 120 125
 Arg Phe Ile Ser Glu Lys Lys His Asp Glu Ile Arg Gln Cys Ile Ala
 130 135 140
 Arg Val Arg Gln Glu Met His Leu Lys Phe Thr Thr Phe Asp Asp Val
 145 150 155 160
 Asp Glu His Val Val Ala Glu Trp Thr Gly Leu Ser Arg Pro Arg Ser
 165 170 175
 Val Leu Ala Arg Lys His Glu Ala Ser Val Thr Leu Ile Trp Arg Asp
 180 185 190
 Ser Asp Glu Gln Met Lys Tyr Phe Ala Ala Glu Leu Ala Arg Gln Arg
 195 200 205
 Leu Lys Ile Val Gln Gly Ala Arg Phe Trp His Ile Leu Asp Thr Cys
 210 215 220
 Cys Gly Lys Asp Val Ala Val His Trp Leu Val Asp Gln Tyr Arg Leu
 225 230 235 240
 His Glu Gly Tyr Glu Pro Thr Thr Leu Gly Leu Gly Asp Gly Pro Asn
 245 250 255
 Asp Ala Pro Leu Leu Asp Ser Val Gly Phe Ala Val Val Val Lys Gly
 260 265 270
 Phe Asn Arg Glu Gly Ile Ser Leu Ile Asn Asn Asp Pro Ala Arg Val
 275 280 285
 Tyr His Thr Gln His Thr Gly Pro Thr Gly Trp Cys Glu Gly Leu Asp
 290 295 300
 Tyr Phe Leu Arg
 305

<210> 8168
 <211> 474
 <212> PRT
 <213> Enterobacter cloacae

Angle	$\alpha = 0^\circ$	$\alpha = 30^\circ$	$\alpha = 45^\circ$	$\alpha = 60^\circ$	$\alpha = 75^\circ$	$\alpha = 90^\circ$
$\beta = 0^\circ$						
$\beta = 15^\circ$						
$\beta = 30^\circ$						
$\beta = 45^\circ$						
$\beta = 60^\circ$						
$\beta = 75^\circ$						
$\beta = 90^\circ$						

Gly 1	Ile	Asn	Met	Ala 5	Ser	Ile	Ser	Thr	Leu 10	Gly	Val	Gly	Ser	Gly 15	Leu
Gln	Leu	Gly	Asp 20	Ile	Leu	Asp	Ser	Leu 25	Thr	Ala	Ala	Gln	Lys 30	Ala	Gln
Leu	Thr	Pro 35	Ile	Ser	Lys	Gln	Gln 40	Thr	Ser	Tyr	Thr	Ala 45	Lys	Leu	Ser
Ala	Tyr 50	Gly	Thr	Leu	Lys	Ser 55	Ala	Leu	Glu	Ser	Phe 60	Gln	Thr	Ala	Asn
Thr 65	Ala	Leu	Ser	Lys 70	Ala	Asp	Leu	Phe	Thr	Ala 75	Thr	Thr	Thr	Ala	Ser 80
Ser	Ser	Thr	Ala	Phe 85	Ser	Ala	Thr	Thr	Ser 90	Gly	Ser	Ala	Ile	Ala 95	Gly
Lys	Tyr	Thr	Ile 100	Asn	Val	Ser	Gln	Leu 105	Ala	Gln	Ala	Gln	Thr 110	Leu	Thr
Thr	Ala	Lys 115	Thr	Gln	Ser	Asp	Asn 120	Lys	Thr	Ala	Ile	Ala 125	Thr	Ala	Asp
Ser	Thr 130	Ile	Thr	Ile	Gln	Gln 135	Gly	Gly	Asp	Lys	Lys 140	Pro	Val	Thr	Ile
Asn 145	Ile	Ser	Ala	Glu 150	Asn	Ser	Ser	Leu	Ser	Gly 155	Ile	Arg	Asp	Ala	Ile 160
Asn	Lys	Ala	Asp 165	Ala	Gly	Val	Ser	Ala	Ser 170	Ile	Ile	Asn	Val	Gly 175	Asn
Gly	Glu	Tyr 180	Arg	Leu	Ser	Ile	Thr 185	Ser	Lys	Asp	Thr	Gly	Lys 190	Asp	Asn
Ala	Met 195	Thr	Ile	Ser	Val	Ser	Gly 200	Asp	Thr	Ala	Leu	Gln 205	Ser	Phe	Met
Gly	Tyr 210	Asn	Gly	Asn	Ser	Ala 215	Asp	Thr	Ala	Asn	Gly 220	Met	Met	Glu	Ser
Val 225	Thr	Ala	Gln	Asn 230	Ala	Leu	Leu	Lys	Val 235	Asn	Asn	Val	Asp	Ile	Glu 240
Asn	Ser	Ser	Asn 245	Thr	Ile	Ser	Asp	Ala 250	Leu	Glu	Asp	Ile	Thr	Leu 255	Asn
Leu	Asn	Asp 260	Val	Thr	Thr	Gly	Asn 265	Gln	Thr	Leu	Thr	Ile 270	Thr	Thr	Asp
Asn	Thr 275	Lys	Ala	Thr	Lys	Ala 280	Ile	Asn	Asp	Trp	Val	Thr 285	Ala	Tyr	Asn
Ser	Leu 290	Gln	Asp	Thr	Phe	Ser 295	Ser	Leu	Thr	Lys	Tyr 300	Thr	Ala	Val	Asp
Ala 305	Gly	Ser	Asp	Ala 310	Gln	Asn	Thr	Ser	Asn	Gly 315	Ala	Leu	Leu	Gly	Asp 320
Ser	Thr	Leu	Arg 325	Thr	Ile	Gln	Thr	Gln	Leu 330	Arg	Ser	Val	Leu	Asn	Asn
Pro	His	Thr 340	Ser	Ser	Asn	Ile	Lys 345	Thr	Leu	Ala	Gln	Ala 350	Gly	Ile	Thr
Thr	Asp 355	Pro	Ser	Thr	Gly	Lys	Leu 360	Glu	Val	Asp	Asp 365	Asp	Lys	Leu	Ser
Ala	Ala 370	Met	Lys	Asn	Ser	Ala 375	Ala	Gly	Ile	Lys	Asp 380	Leu	Leu	Ile	Gly
Asp 385	Gly	Lys	Thr	Ser 390	Gly	Ile	Thr	Thr	Thr	Val 395	Gly	Thr	Asn	Leu	Thr
Gly	Trp	Leu	Ser 405	Ser	Thr	Gly	Ile	Ile	Gln 410	Ala	Ala	Lys	Asp	Gly 415	Val
Ser	Lys	Thr 420	Leu	Asn	Asn	Leu	Thr 425	Lys	Gln	Tyr	Asn	Ala 430	Ala	Ser	Glu
Arg	Ile 435	Asp	Thr	Met	Val	Ala 440	Arg	Tyr	Lys	Glu	Gln	Phe 445	Thr	Gln	Leu
Asp	Val 450	Met	Met	Asn	Ser	Leu 455	Asn	Ser	Thr	Ser	Ser 460	Tyr	Leu	Thr	Gln
Gln 465	Phe	Glu	Asn	Thr 470	Ser	Ser	Asn	Lys							

<210> 8169
 <211> 146
 <212> PRT
 <213> Enterobacter cloacae

<400> 8169
 Thr Leu Ile Arg Pro Glu Gly Asp Asn Met Tyr Gly Ala Lys Gly Thr
 1 5 10 15
 Gln Ala Tyr Ala Lys Ile Glu Val Glu Ser Ala Val Met Ser Ala Ser
 20 25 30
 Gln Gln Gln Leu Val Ile Met Leu Phe Asp Gly Ala Leu Ser Ala Leu
 35 40 45
 Val Arg Ala Arg Leu Phe Leu Ala Asp Gly Asn Ile Pro Ala Lys Gly
 50 55 60
 Leu Ala Leu Ser Lys Ala Ile Asn Ile Ile Glu Asn Gly Leu Lys Val
 65 70 75 80
 Gly Leu Val Glu Asn Asn Gly Asp Glu Leu Thr Gln Asn Leu Ile Ala
 85 90 95
 Leu Tyr Ala Tyr Met Val Arg Arg Leu Leu His Ala Asn Val Asn Asn
 100 105 110
 Asp Ala Ser Ala Ile Glu Glu Val Glu Asn Leu Leu Arg Asn Ile Ala
 115 120 125
 Asp Gly Trp Lys Glu Val Ala Gly Thr Pro Gln Leu Met Gln Asp Ala
 130 135 140
 Val
 145

<210> 8170
 <211> 359
 <212> PRT
 <213> Enterobacter cloacae

<400> 8170
 Ala Ser Ala Phe Ala Lys Cys Gln Ile Thr Ile Arg Ala Ser Ser Arg
 1 5 10 15
 Trp Ser Ser Ala Val Gly Trp Val Thr Asn Met Ser Asn Thr Leu Thr
 20 25 30
 Gly Thr Asp Lys Ser Val Ile Leu Met Thr Ile Gly Glu Asp Arg
 35 40 45
 Ala Ala Glu Val Phe Lys His Leu Ser Gln Arg Glu Val Gln Ile Leu
 50 55 60
 Ser Ala Ala Met Ala Asn Val Arg Gln Ile Ser Asn Lys Gln Leu Thr
 65 70 75 80
 Glu Val Leu Ala Glu Phe Glu Gln Glu Ala Glu Gln Phe Ala Ala Leu
 85 90 95
 Asn Val Asn Ala Asn Glu Tyr Leu Arg Ser Val Leu Val Lys Ala Leu
 100 105 110
 Gly Glu Glu Arg Ala Ala Ser Leu Leu Glu Asp Ile Leu Glu Thr Arg
 115 120 125
 Asp Thr Ala Ser Gly Ile Glu Thr Leu Asn Phe Met Glu Pro Gln Ser
 130 135 140
 Ala Ala Asp Leu Ile Arg Asp Glu His Pro Gln Ile Ile Ala Thr Ile
 145 150 155 160
 Leu Val His Leu Lys Arg Gly Gln Ala Ala Asp Ile Leu Ala Leu Phe
 165 170 175
 Asp Glu Arg Leu Arg His Asp Val Met Leu Arg Ile Ala Thr Phe Gly
 180 185 190
 Gly Val Gln Pro Ala Ala Leu Ala Glu Leu Thr Glu Val Leu Asn Asn
 195 200 205
 Leu Leu Asp Gly Gln Asn Leu Lys Arg Ser Lys Met Gly Gly Val Arg

210	215	220
Thr Ala Ala Glu Ile Ile Asn Leu Met Lys Thr Gln Gln Glu Glu Ala		
225	230	235
Val Ile Thr Ala Val Arg Glu Phe Asp Gly Glu Leu Ala Gln Lys Ile		
	245	250
Ile Asp Glu Met Phe Leu Phe Glu Asn Leu Val Glu Val Asp Asp Arg		
	260	265
Ser Ile Gln Arg Leu Leu Gln Glu Val Asp Ser Glu Ser Leu Leu Ile		
	275	280
Ala Leu Lys Gly Ala Glu Gln Pro Leu Arg Glu Lys Phe Leu Arg Asn		
	290	295
Met Ser Gln Arg Ala Ala Asp Ile Leu Arg Asp Asp Leu Ala Asn Arg		
305	310	315
Gly Pro Val Arg Leu Ser Gln Val Glu Asn Glu Gln Lys Ala Ile Leu		
	325	330
Leu Ile Val Arg Arg Leu Ala Glu Thr Gly Glu Met Val Ile Gly Ser		
	340	345
Gly Asp Asp Thr Tyr Val		
355		

<210> 8171

<211> 481

<212> PRT

<213> Enterobacter cloacae

<400> 8171

Gly Arg Ser Gly Cys Gln Arg Arg Asp Pro Leu Ala Gly Thr Val Pro		
1	5	10
Pro Gly Gly Thr Gly Ser Arg Leu Met Thr Ala Arg Leu Thr Arg Trp		
	20	25
Leu Asn Thr Leu Asp Asn Phe Glu Thr Lys Met Ala Gln Leu Pro Ser		
	35	40
Val Arg Arg Tyr Gly Arg Leu Thr Arg Ala Thr Gly Leu Val Leu Glu		
	50	55
Ala Thr Gly Leu Gln Leu Pro Leu Gly Ala Thr Cys Val Ile Glu Arg		
65	70	75
Gln Asp Gly Gly Glu Thr Arg Glu Val Glu Ser Glu Val Val Gly Phe		
	85	90
Asn Gly Gln Arg Leu Phe Leu Met Pro Leu Glu Glu Val Glu Gly Ile		
	100	105
Leu Pro Gly Ala Arg Val Tyr Ala Lys Asn Ile Ser Gly Asp Gly Leu		
	115	120
Gln Ser Gly Lys Gln Leu Pro Leu Gly Pro Ala Leu Leu Gly Arg Val		
	130	135
Leu Asp Gly Ser Gly Lys Pro Leu Asp Gly Leu Pro Ser Pro Asp Thr		
145	150	155
Thr Glu Thr Gly Ala Leu Ile Thr Gln Pro Phe Asn Pro Leu Gln Arg		
	165	170
Thr Pro Ile Glu His Val Leu Asp Thr Gly Val Arg Pro Ile Asn Ala		
	180	185
Leu Leu Thr Val Gly Arg Gly Gln Arg Met Gly Leu Phe Ala Gly Ser		
	195	200
Gly Val Gly Lys Ser Val Leu Leu Gly Met Met Ala Arg Tyr Thr Gln		
	210	215
Ala Asp Val Ile Val Val Gly Leu Ile Gly Glu Arg Gly Arg Glu Val		
225	230	235
Lys Asp Phe Ile Glu Asn Ile Leu Gly Thr Glu Gly Arg Ala Arg Ser		
	245	250
Val Val Ile Ala Ala Pro Ala Asp Val Ser Pro Leu Leu Arg Met Gln		
	260	265
Gly Ala Ala Tyr Ala Thr Arg Ile Ala Glu Asp Phe Arg Asp Arg Gly		
		270

	275		280		285										
Gln	His	Val	Leu	Leu	Ile	Met	Asp	Ser	Leu	Thr	Arg	Tyr	Ala	Met	Ala
	290					295					300				
Gln	Arg	Glu	Ile	Ala	Leu	Ala	Ile	Gly	Glu	Pro	Pro	Ala	Thr	Lys	Gly
305					310					315					320
Tyr	Pro	Pro	Ser	Val	Phe	Ala	Lys	Leu	Pro	Ala	Leu	Val	Glu	Arg	Ala
			325						330					335	
Gly	Asn	Gly	Ile	Ser	Gly	Gly	Gly	Ser	Ile	Thr	Ala	Phe	Tyr	Thr	Val
			340					345					350		
Leu	Thr	Glu	Gly	Asp	Asp	Gln	Gln	Asp	Pro	Ile	Ala	Asp	Ser	Ala	Arg
		355					360					365			
Ala	Ile	Leu	Asp	Gly	His	Ile	Val	Leu	Ser	Arg	Arg	Leu	Ala	Glu	Ala
	370					375					380				
Gly	His	Tyr	Pro	Ala	Ile	Asp	Ile	Glu	Ala	Ser	Ile	Ser	Arg	Ala	Met
385					390					395					400
Thr	Ala	Leu	Ile	Thr	Glu	Gln	His	Tyr	Ala	Arg	Val	Arg	Asn	Phe	Lys
			405						410					415	
Gln	Leu	Leu	Ser	Ser	Phe	Gln	Arg	Asn	Arg	Asp	Leu	Val	Ser	Val	Gly
			420					425					430		
Ala	Tyr	Ala	Lys	Gly	Ser	Asp	Pro	Met	Leu	Asp	Lys	Ala	Ile	Ala	Leu
	435						440				445				
Trp	Pro	Gln	Leu	Glu	Ala	Phe	Leu	Gln	Gln	Gly	Ile	Phe	Glu	Arg	Ala
	450					455					460				
Asp	Trp	Glu	Asp	Ser	Leu	Gln	Ala	Leu	Glu	Leu	Ile	Phe	Pro	Gln	Val
465					470				475						480

<210> 8172

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 8172

His	Arg	Trp	Arg	Ala	Lys	Val	Met	Ala	Gln	Asn	Ser	Ala	Leu	Ser	Thr
1				5					10					15	
Leu	Lys	Asp	Leu	Ala	Glu	Lys	Glu	Val	Asp	Asp	Ala	Ala	Leu	Gln	Leu
		20						25					30		
Gly	Ala	Met	Arg	Arg	Gly	Cys	Gln	Gln	Ala	Glu	Glu	Gln	Leu	Lys	Met
		35					40					45			
Leu	Ile	Asp	Tyr	Gln	His	Glu	Tyr	Arg	Thr	Asn	Leu	Asn	Thr	Asp	Met
	50					55				60					
Thr	Gln	Gly	Ile	Gly	Ser	Gln	Arg	Trp	Ile	Asn	Tyr	Gln	Gln	Phe	Ile
65				70					75					80	
Gln	Thr	Leu	Glu	Lys	Ala	Ile	Glu	Gln	His	Arg	Gln	Gln	Leu	Asn	Gln
			85					90					95		
Trp	Thr	Gln	Lys	Val	Asp	Thr	Ala	Leu	Asn	Phe	Trp	Arg	Glu	Lys	Lys
		100						105					110		
Gln	Arg	Leu	Gln	Ala	Trp	Gln	Thr	Leu	Gln	Asp	Arg	Gln	Ile	Ala	Ala
	115					120					125				
Ser	Thr	Leu	Ala	Glu	Asn	Arg	Leu	Asp	Gln	Lys	Lys	Met	Asp	Glu	Phe
	130				135						140				
Ala	Gln	Arg	Ala	Ser	Met	Arg	Lys	Pro	Glu						
145					150				155						

<210> 8173

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 8173

Ala Gly His Gly Ile Ile Thr Val Leu Ser Cys Thr Glu Thr Gly Ser
 1 5 10 15
 Ser Tyr Gln Met Thr Asp Ser Ala Ile Thr Lys Lys Ser Lys Arg Ser
 20 25 30
 Ile Trp Ile Pro Leu Leu Val Leu Ile Thr Leu Ala Ala Cys Ala Thr
 35 40 45
 Ala Gly Tyr Ser Tyr Trp Arg Met Gln Gln Glu Pro Ser Ser Ala Ala
 50 55 60
 Ala Lys Ala Glu Ala Pro Pro Pro Pro Ala Pro Val Phe Tyr Pro Leu
 65 70 75 80
 Asp Thr Phe Thr Val Asn Leu Gly Asp Ala Asp Arg Val Leu Tyr Val
 85 90 95
 Gly Ile Thr Leu Arg Leu Lys Asp Glu Ala Thr Arg Ala Arg Leu Asn
 100 105 110
 Asp Tyr Leu Pro Glu Val Arg Ser Arg Leu Leu Leu Leu Phe Ser Arg
 115 120 125
 Gln Asp Ala Ser Ala Leu Ala Thr Asp Val Gly Lys Gln Lys Leu Val
 130 135 140
 Asp Ala Ile Lys Gln Thr Leu Ala Thr Pro Leu Val Asn Gly Gln Pro
 145 150 155 160
 Lys Gln Glu Val Thr Asp Val Leu Tyr Thr Ala Phe Ile Leu Arg
 165 170 175

<210> 8174

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 8174

Gly Thr Ala Gln Met Ser Asp Met Asn Asn Pro Ser Asp Glu Asn Ser
 1 5 10 15
 Gly Ala Leu Asp Asp Leu Trp Ala Asp Ala Leu Asn Glu Gln Lys Thr
 20 25 30
 Thr Pro Thr Lys Ser Ala Ala Asp Ala Val Phe Gln Gln Leu Gly Gly
 35 40 45
 Gly Asp Val Ser Gly Thr Leu Gln Asp Ile Asp Leu Ile Met Asp Ile
 50 55 60
 Pro Val Lys Leu Thr Val Glu Leu Gly Arg Thr Arg Met Thr Ile Lys
 65 70 75 80
 Glu Leu Leu Arg Leu Thr Gln Gly Ser Val Val Ala Leu Asp Gly Leu
 85 90 95
 Ala Gly Glu Pro Leu Asp Ile Leu Ile Asn Gly Tyr Leu Ile Ala Gln
 100 105 110
 Gly Glu Val Val Val Val Ala Asp Lys Tyr Gly Val Arg Ile Thr Asp
 115 120 125
 Ile Ile Thr Pro Ser Glu Arg Met Arg Arg Leu Ser Arg
 130 135 140

<210> 8175

<211> 520

<212> PRT

<213> Enterobacter cloacae

<400> 8175

Pro Phe Arg Ser Pro Gly Ile Ser Ala Lys Pro Ala Pro Tyr Leu Ser
 1 5 10 15
 Phe Ala Thr Ser Trp Arg Trp Cys Met Arg Asn Pro Thr Leu Leu Gln
 20 25 30
 Cys Phe His Trp Tyr Tyr Pro Thr Gly Gly Glu Leu Trp Arg Glu Val
 35 40 45
 Thr Ala Leu Ala Pro Asn Leu Asn Glu Ile Gly Ile Asn Met Val Trp

50	55	60
Leu Pro Pro Ala Tyr Lys Gly Ala Ser Gly Gly Tyr Ser Val Gly Tyr		
65	70	75
Asp Ser Tyr Asp Leu Phe Asp Leu Gly Glu Phe Asp Gln Lys Gly Ser		80
	85	90
Val Ala Thr Lys Tyr Gly Asp Lys Ala Gln Leu Leu Glu Ala Ile Asn		95
	100	105
Ala Leu Lys Ser Asn Gln Ile Ala Val Leu Leu Asp Val Val Val Asn		110
	115	120
His Lys Met Gly Ala Asp Glu Lys Glu Pro Val Arg Val Gln Arg Val		125
	130	135
Asp Ala Gln Asp Arg Thr Gln Ile Ser Asp Glu Ile Ile Glu Cys Glu		140
145	150	155
Ala Trp Thr Arg Tyr Thr Phe Pro Val Arg Ala Gly Gln Tyr Ser Gln		160
	165	170
Phe Ile Trp Asp Tyr Lys Cys Phe Ser Gly Ile Asp His Ile Glu Asn		175
	180	185
Pro Asn Glu Asp Gly Ile Phe Lys Ile Val Asn Asp Tyr Thr Gly Glu		190
	195	200
Gly Trp Asn Asp Gln Val Asp Asp Glu Met Gly Asn Phe Asp Tyr Leu		205
	210	215
Met Gly Glu Asn Ile Asp Phe Arg Asn His Ala Val Thr Glu Glu Ile		220
225	230	235
Lys Tyr Trp Ala Arg Trp Val Met Glu Gln Thr His Cys Asp Gly Phe		240
	245	250
Arg Leu Asp Ala Val Lys His Ile Pro Ala Trp Phe Tyr Lys Glu Trp		255
	260	265
Ile Glu His Val Gln Glu Val Ala Pro Gln Pro Leu Phe Ile Val Ala		270
	275	280
Glu Tyr Trp Ser His Glu Val Asp Lys Leu Gln His Tyr Ile Asn Gln		285
	290	295
Val Asp Gly Lys Thr Met Leu Phe Asp Ala Pro Leu Gln Met Lys Phe		300
305	310	315
His Glu Ala Ser Arg Gln Gly Arg Asp Tyr Asp Met Ser Gln Ile Phe		320
	325	330
Thr Gly Thr Leu Val Glu Ala Asp Pro Phe His Ala Val Thr Leu Val		335
	340	345
Ala Asn His Asp Thr Gln Pro Leu Gln Ala Leu Glu Ala Pro Val Glu		350
	355	360
Ala Trp Phe Lys Pro Leu Ala Tyr Ala Leu Ile Leu Leu Arg Glu Asn		365
	370	375
Gly Val Pro Ser Val Phe Tyr Pro Asp Leu Phe Gly Ala Ser Tyr Asp		380
385	390	395
Asp Thr Gly Gly Asp Gly Glu Thr Tyr His Ile Asp Met Pro Val Ile		400
	405	410
Glu Gln Leu His Glu Leu Ile Leu Ala Arg Gln Arg Phe Ala His Gly		415
	420	425
Val Gln Thr Leu Phe Phe Asp His Pro Asn Cys Ile Ala Phe Ser Arg		430
	435	440
Ser Gly Thr Glu Glu His Pro Gly Cys Val Val Val Leu Ser Asn Gly		445
	450	455
Asp Asp Gly Glu Lys Thr Ile Cys Leu Gly Glu Asn Tyr Gly Asn Lys		460
465	470	475
Thr Trp Arg Asp Phe Leu Gly Asn Arg Glu Glu Thr Val Thr Thr Ala		480
	485	490
Ala Asp Gly Glu Gly Thr Phe Phe Cys Asn Gly Gly Ser Val Ser Val		495
	500	505
Trp Val Ile Glu Asp Ala Leu		510
	515	520

<211> 243
 <212> PRT
 <213> Enterobacter cloacae

<400> 8176

Leu	Ala	Ala	Glu	Thr	Thr	Pro	Met	Ser	Asp	Glu	Leu	Ser	Trp	Lys	Arg
1				5					10					15	
Trp	Thr	Pro	Asp	Asp	Leu	Ser	Pro	Pro	Ser	Ala	Glu	Phe	Thr	Pro	Ala
			20					25					30		
Val	Val	Ser	Ser	Asp	Glu	Gly	Asp	Ala	Gly	Ala	Gly	Glu	Pro	Glu	Leu
		35					40					45			
Ser	Glu	Glu	Glu	Gln	Arg	Ala	Gln	Leu	Leu	Ala	Gln	Met	Gln	Met	Gln
	50					55					60				
Ala	His	Glu	Gln	Gly	Phe	Asn	Ala	Gly	Met	Asn	Glu	Gly	Arg	Gln	Thr
65					70					75					80
Gly	His	Ala	Gln	Gly	Tyr	Gln	Glu	Gly	Leu	Ala	Lys	Gly	Leu	Glu	Gln
			85					90						95	
Gly	Ile	Glu	Gln	Ala	Arg	Gln	Gln	Gln	Ala	Pro	Leu	His	Ala	Arg	Met
			100					105					110		
Gln	Gln	Leu	Val	Ser	Glu	Phe	Gln	His	Thr	Leu	Asp	Ala	Leu	Asp	Ser
		115					120					125			
Val	Ile	Ala	Ser	Arg	Leu	Met	Gln	Met	Ala	Leu	Glu	Ala	Ala	Arg	Gln
		130				135					140				
Val	Ile	Gly	Gln	Thr	Pro	Ile	Val	Asp	Asn	Ala	Ala	Leu	Ile	Lys	Gln
145					150					155					160
Ile	Gln	Gly	Leu	Leu	Gln	Gln	Glu	Pro	Leu	Phe	Ser	Gly	Lys	Pro	Gln
			165					170						175	
Leu	Arg	Val	His	Pro	Asp	Asp	Leu	Gln	Arg	Val	Glu	Glu	Ser	Leu	Gly
		180						185					190		
Ala	Thr	Leu	Ser	Leu	His	Gly	Trp	Arg	Leu	Arg	Gly	Asp	Pro	Ser	Leu
		195					200					205			
His	His	Gly	Gly	Cys	Lys	Val	Ser	Ala	Asp	Glu	Gly	Asp	Leu	Asp	Ala
		210				215					220				
Ser	Val	Ala	Thr	Arg	Trp	Gln	Glu	Leu	Cys	Arg	Leu	Ala	Ala	Pro	Gly
225					230					235					240
Val	Val														

<210> 8177
 <211> 356
 <212> PRT
 <213> Enterobacter cloacae

<400> 8177

Thr	Ala	Asn	Leu	Ser	Arg	Lys	Ser	Leu	Thr	Phe	Cys	Ile	Gln	Pro	Ser
1				5					10					15	
Phe	Cys	Gly	Asn	Asp	Met	Gly	Asp	Ser	Ile	Leu	Ser	Gln	Ala	Glu	Ile
			20					25					30		
Asp	Ala	Leu	Leu	Asn	Gly	Asp	Ser	Asp	Lys	Ser	Asp	Glu	Pro	Lys	Pro
		35					40					45			
Gly	Leu	Thr	Gly	Asp	Asp	Asn	Ile	Arg	Pro	Tyr	Asp	Pro	Asn	Thr	Gln
	50					55					60				
Arg	Arg	Val	Val	Arg	Glu	Arg	Leu	Gln	Ala	Leu	Glu	Ile	Ile	Asn	Glu
65					70					75					80
Arg	Phe	Ala	Arg	Gln	Phe	Arg	Met	Gly	Leu	Phe	Asn	Leu	Leu	Arg	Arg
			85					90						95	
Ser	Pro	Asp	Ile	Thr	Val	Gly	Ala	Ile	Arg	Ile	Gln	Pro	Tyr	His	Glu
			100					105					110		
Phe	Ala	Arg	Asn	Leu	Pro	Val	Pro	Thr	Asn	Leu	Asn	Leu	Ile	His	Leu
		115					120					125			
Lys	Pro	Leu	Arg	Gly	Thr	Gly	Leu	Val	Val	Phe	Ser	Pro	Ser	Leu	Val

130	135	140
Phe Ile Ala Val Asp Asn Leu Phe Gly Gly Asp Gly Arg Phe Pro Thr		
145	150	155
Lys Val Glu Gly Arg Glu Phe Thr His Thr Glu Gln Arg Val Ile Asn		
	165	170
Arg Met Leu Lys Leu Ala Leu Glu Ser Tyr Ser Asp Ala Trp Lys Ala		
	180	185
Ile Asn Pro Leu Glu Val Glu Tyr Val Arg Ser Glu Met Gln Val Lys		
	195	200
Phe Thr Asn Ile Thr Thr Ser Pro Asn Asp Ile Val Val Asn Thr Pro		
	210	215
Phe His Val Glu Ile Gly Asn Leu Thr Gly Glu Phe Asn Ile Cys Leu		
225	230	235
Pro Phe Ser Met Ile Glu Pro Leu Arg Glu Leu Leu Val Asn Pro Pro		
	245	250
Leu Glu Asn Ser Arg His Glu Asp Gln Asn Trp Arg Glu Asn Leu Val		
	260	265
Arg Gln Val Gln His Ser Gln Leu Glu Leu Val Ala Asn Phe Ala Asp		
	275	280
Ile Ser Met Arg Leu Ser Gln Ile Leu Lys Leu Gln Pro Gly Asp Val		
	290	295
Leu Pro Ile Asp Lys Pro Asp Arg Ile Ile Ala His Val Asp Gly Val		
305	310	315
Pro Val Leu Thr Ser Gln Tyr Gly Thr Ile Asn Gly Gln Tyr Ala Leu		
	325	330
Arg Val Glu His Leu Ile Asn Pro Ile Leu Asn Ser Leu Asn Glu Glu		
	340	345
Gln Pro Lys		350
355		

<210> 8178

<211> 268

<212> PRT

<213> Enterobacter cloacae

<400> 8178

Arg Pro Gly Pro Cys Gly Phe Pro Val Arg Tyr Glu Glu Phe Ala Gln	
1	5
Ala Ser Arg Glu Ile Leu Met Arg Arg Leu Leu Phe Leu Thr Leu Ala	
	20
Gly Leu Gly Leu Phe Ala Pro Ser Val Tyr Ala Gln Leu Pro Gly Leu	
	35
Val Ser Thr Pro Leu Ala Asn Gly Gly Gln Ser Trp Ser Leu Ser Val	
	50
Gln Thr Leu Val Phe Ile Thr Ser Leu Thr Phe Ile Pro Ala Ile Leu	
65	70
Leu Met Met Thr Ser Phe Thr Arg Ile Ile Val Phe Gly Leu Leu	
	85
Arg Asn Ala Leu Gly Thr Pro Ser Ala Pro Pro Asn Gln Val Leu Leu	
	100
Gly Leu Ala Leu Phe Leu Thr Phe Phe Ile Met Ser Pro Val Ile Asp	
	115
Lys Ile Tyr Thr Glu Ala Tyr Gln Pro Phe Ser Glu Asp Lys Ile Ser	
	130
Met Gln Val Ala Leu Glu Lys Gly Ala Gln Pro Leu Arg Glu Phe Met	
145	150
Leu Arg Gln Thr Arg Glu Ala Asp Leu Ala Leu Phe Ala Arg Leu Ala	
	165
Asn Thr Gly Glu Leu Gln Gly Pro Glu Ala Val Pro Met Arg Ile Leu	
	180
Leu Pro Ala Tyr Val Thr Ser Glu Leu Lys Thr Ala Phe Gln Ile Gly	
	185
	190


```
<210> 8179
<211> 86
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 8180
<211> 116
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 8181
<211> 103
<212> PRT
<213> Enterobacter cloacae
```

```
<400> 8181
Arg Ala Ile Met  Pro Ser Arg Thr Asp  Leu Pro Thr  Pro Glu  Pro Ala
1          5          10          15
Asn Ser  Pro Ile  Arg Trp  Pro Arg  Pro Thr  Val  Ser Arg  Ala  Leu Ile
```

```
<210> 8182
<211> 112
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 8183
<211> 163
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

<210> 8184
 <211> 270
 <212> PRT
 <213> Enterobacter cloacae

<400> 8184

```

Pro Leu Ile Ser Pro Thr Ile His Pro Ile Lys Thr Pro Pro Glu Ser
1      5      10      15
Asp Asn His Ala Asp Asn Ser Thr Asn Ala Gly Leu Phe Ile Val Asn
20      25      30
Ser Leu Tyr Thr Ala Glu Gly Val Met Asp Lys His Ser Leu Trp Gln
35      40      45
Arg Tyr Val Pro Leu Val Arg His Glu Ala Leu Arg Leu Gln Val Arg
50      55      60
Leu Pro Ala Ser Val Glu Leu Asp Asp Leu Leu Gln Ala Gly Gly Ile
65      70      75      80
Gly Leu Leu Asn Ala Val Asp Arg Tyr Asp Ala Leu Gln Gly Thr Ala
85      90      95
Phe Thr Thr Tyr Ala Val Gln Arg Ile Arg Gly Ala Met Leu Asp Glu
100     105     110
Leu Arg Ser Arg Asp Trp Val Pro Arg Ser Val Arg Arg Asn Ala Arg
115     120     125
Glu Val Ala His Ala Met Gly Gln Leu Glu Gln Glu Leu Gly Arg Asn
130     135     140
Ala Thr Glu Thr Glu Val Ala Glu Arg Leu Gly Ile Pro Val Glu Glu
145     150     155     160
Tyr Arg Gln Met Leu Leu Asp Thr Asn Asn Ser Gln Leu Phe Ser Tyr
165     170     175
Asp Glu Trp Arg Glu Glu His Gly Asp Ser Ile Glu Leu Val Thr Asp
180     185     190
Glu His Gln Gln Glu Asn Pro Leu His His Leu Leu Glu Gly Asn Leu
195     200     205
Arg Gln Arg Val Met Glu Ala Ile Glu Ala Leu Pro Glu Arg Glu Gln
210     215     220
Leu Val Leu Thr Leu Tyr Tyr Gln Glu Glu Leu Asn Leu Lys Glu Ile
225     230     235     240
Gly Ala Val Leu Glu Val Gly Glu Ser Arg Val Ser Gln Leu His Ser
245     250     255
Gln Ala Ile Lys Arg Leu Arg Thr Lys Leu Gly Lys Leu
260     265     270

```

<210> 8185
 <211> 189
 <212> PRT
 <213> Enterobacter cloacae

<400> 8185

```

Gln Pro Gly Val Ile Met Thr Val Gln Gln Ser Lys Arg Arg Pro Leu
1      5      10      15
Ser Arg Tyr Leu Lys Asp Phe Lys His Ser Gln Thr His Cys Ala His
20      25      30
Cys Lys Lys Leu Leu Asp Arg Ile Thr Leu Val Arg Arg Gly Glu Ile
35      40      45
Val Asn Lys Ile Ala Ile Ser Arg Leu Asp Thr Leu Met Asp Glu Ala
50      55      60
Ala Trp Leu Glu Glu Gln Lys Glu Trp Val Ala Leu Cys Arg Phe Cys
65      70      75      80
Gly Asp Leu His Cys Lys Glu Gln Ser Asp Phe Phe Asp Ile Ile Gly
85      90      95
Phe Lys Gln Phe Leu Phe Glu Gln Thr Glu Met Ser His Gly Thr Val

```

```
<210> 8186
<211> 353
<212> PRT
<213> Enterobacter cloacae
```

Lys 1	Arg	Leu	Phe	Tyr 5	Phe	Ser	Arg	Val	Cys 10	Val	His	Asn	Glu	Ile 15	Thr
Ile	Val	Cys	Val	Thr	Gly	Gly	Thr	Met	Ser	Leu	Gln	Asn	Leu	Thr	Arg
			20					25					30		
Phe	Pro	Arg	Leu	Glu	Phe	Ile	Gly	Ala	Pro	Thr	Pro	Leu	Glu	Phe	Leu
		35					40					45			
Pro	Arg	Phe	Ser	Asp	Tyr	Leu	Gly	Arg	Asp	Ile	Phe	Ile	Lys	Arg	Asp
	50					55					60				
Asp	Val	Thr	Pro	Met	Ala	Met	Gly	Gly	Asn	Lys	Leu	Arg	Lys	Leu	Glu
65					70					75					80
Phe	Leu	Ala	Ala	Asp	Ala	Leu	Arg	Glu	Gly	Ala	Asp	Thr	Leu	Ile	Thr
				85					90					95	
Ala	Gly	Ala	Ile	Gln	Ser	Asn	His	Val	Arg	Gln	Thr	Ala	Ala	Val	Ala
			100					105					110		
Ala	Lys	Leu	Gly	Leu	His	Cys	Val	Ala	Leu	Leu	Glu	Asn	Pro	Ile	Gly
		115					120					125			
Thr	Gln	Ala	Glu	Asn	Tyr	Leu	Thr	Asn	Gly	Asn	Arg	Leu	Leu	Leu	Asp
	130					135					140				
Leu	Phe	Asn	Val	Gln	Val	Glu	Met	Val	Asp	Ala	Leu	Thr	Asp	Pro	Ala
145					150					155					160
Ala	Gln	Leu	Asp	Glu	Leu	Ala	Thr	Arg	Leu	Glu	Ala	Gln	Gly	Phe	Arg
				165					170					175	
Pro	Tyr	Val	Ile	Pro	Val	Gly	Gly	Ser	Asn	Ala	Leu	Gly	Ala	Leu	Gly
			180					185					190		
Tyr	Val	Glu	Ser	Ala	Leu	Glu	Ile	Ala	Gln	Gln	Cys	Glu	Gly	Ala	Val
		195					200					205			
Ser	Leu	Ser	Ser	Val	Val	Val	Ala	Ser	Gly	Ser	Ala	Gly	Thr	His	Ala
		210				215					220				
Gly	Leu	Ala	Val	Gly	Leu	Glu	Gln	Leu	Met	Pro	Glu	Val	Glu	Leu	Ile
225					230					235					240
Gly	Val	Thr	Val	Ser	Arg	Ser	Val	Ala	Asp	Gln	Lys	Pro	Lys	Val	Val
				245					250					255	
Thr	Leu	Gln	Gln	Ala	Val	Ala	Glu	Gln	Leu	Ala	Leu	Gln	Ala	Lys	Ala
			260					265					270		
Glu	Ile	Leu	Leu	Trp	Asp	Asp	Tyr	Phe	Ala	Pro	Gly	Tyr	Gly	Thr	Pro
		275					280					285			
Asn	Asp	Glu	Gly	Met	Glu	Ala	Val	Lys	Leu	Leu	Ala	Arg	Leu	Glu	Gly
	290					295					300				
Ile	Leu	Leu	Asp	Pro	Val	Tyr	Thr	Gly	Lys	Ala	Met	Ala	Gly	Leu	Ile
305					310					315					320
Asp	Gly	Ile	Ala	Arg	Lys	Arg	Phe	Lys	Asp	Glu	Gly	Pro	Ile	Leu	Phe
				325					330					335	
Val	His	Thr	Gly	Gly	Ala	Pro	Ala	Leu	Phe	Ala	Tyr	His	Pro	His	Val

340

345

350

<210> 8187

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 8187

```

Lys Ser Gly Arg Lys Ile Ile Met Gln Glu Ser Ile Gln Leu Val Ile
1      5      10
Asp Ser Leu Pro Phe Leu Leu Lys Gly Ala Val Phe Thr Leu Gln Leu
20      25      30
Ser Ile Gly Gly Met Phe Phe Gly Leu Val Leu Gly Phe Val Leu Ala
35      40      45
Leu Met Arg Met Ser Asn Ile Trp Pro Val Arg Trp Leu Ala Arg Phe
50      55      60
Tyr Ile Ser Val Phe Arg Gly Thr Pro Leu Ile Ala Gln Leu Phe Met
65      70      75
Ile Tyr Tyr Gly Leu Pro Gln Phe Gly Ile Glu Leu Asp Pro Ile Pro
85      90      95
Ala Ala Met Ile Gly Leu Ser Leu Asn Thr Ala Ala Tyr Thr Ser Glu
100     105     110
Thr Leu Arg Ala Ala Ile Ser Ser Ile Asp Lys Gly Gln Trp Glu Ala
115     120     125
Ala Ala Ser Ile Gly Met Thr Pro Trp Gln Thr Leu Arg Arg Ala Ile
130     135     140
Leu Pro Gln Ala Ala Arg Val Ala Leu Pro Pro Leu Ser Asn Ser Phe
145     150     155
Ile Ser Leu Val Lys Asp Thr Ser Leu Ala Ala Thr Ile Gln Val Pro
165     170     175
Glu Leu Phe Arg Gln Ala Gln Leu Ile Thr Ser Arg Thr Leu Glu Val
180     185     190
Phe Thr Met Tyr Leu Ala Ala Ser Leu Ile Tyr Trp Val Met Ala Thr
195     200     205
Val Leu Ser Ala Leu Gln Asn Tyr Phe Glu Asn Gln Leu Asn Arg Gln
210     215     220
Glu Arg Asp Pro Lys
225           230

```

<210> 8188

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 8188

```

Ile Thr Leu Ser Ala Asp Pro Ala Ser Cys Val Val Lys Thr Leu Phe
1      5      10
Asp Gln Ala Lys Ile Leu Ala Lys Gln Cys Glu Gln Gln Ser Leu Pro
20      25      30
Phe Ser Val Ile Gln Ile Asp Leu Asp Cys Phe Lys Ser Ile Asn Asp
35      40      45
Arg Phe Gly His Gln Ala Gly Asp Lys Val Leu Ser His Ala Ala Gly
50      55      60
Leu Ile Ala Ser Thr Leu Arg Asp Lys Asp Ile Ala Gly Arg Val Gly
65      70      75
Gly Glu Glu Phe Cys Val Val Leu Pro Gly Met Thr Leu Glu Glu Ala
85      90      95
Ala Glu Val Ala Glu Gln Ile Arg Glu Arg Ile Asp Ser Lys Glu Ile
100     105     110

```

Leu Ile Lys Lys Ser Thr Thr Leu Arg Val Ser Ala Ser Phe Gly Val
 115 120 125
 Ser Gly Ala Gln Glu Lys Gly Asn Tyr His Phe Glu Asn Leu Gln Ser
 130 135 140
 Thr Ala Asp Ala Arg Leu Tyr Glu Ala Lys Gln Arg Gly Arg Asn Arg
 145 150 155 160
 Val Ile Trp Gln Asp His Leu Lys Lys
 165

<210> 8189

<211> 576

<212> PRT

<213> Enterobacter cloacae

<400> 8189

Thr Thr Gly Asn Glu Ile Met Ala Gln Val Ile Asn Thr Asn Ser Leu
 1 5 10 15
 Ser Leu Ile Thr Gln Asn Asn Ile Asn Lys Asn Gln Ser Ser Met Ser
 20 25 30
 Thr Ala Ile Glu Arg Leu Ser Ser Gly Leu Arg Ile Asn Ser Ala Lys
 35 40 45
 Asp Asp Ala Ala Gly Gln Ala Ile Ala Asn Arg Phe Thr Ser Asn Ile
 50 55 60
 Lys Gly Leu Thr Gln Ala Ala Arg Asn Ala Asn Asp Gly Ile Ser Val
 65 70 75 80
 Ala Gln Thr Thr Glu Gly Ala Leu Ser Glu Ile Asn Asn Asn Leu Gln
 85 90 95
 Arg Ile Arg Glu Leu Thr Val Gln Ser Ser Thr Gly Thr Asn Ser Gln
 100 105 110
 Ser Asp Leu Asp Ser Ile Gln Asp Glu Ile Lys Ser Arg Leu Asp Glu
 115 120 125
 Ile Asp Arg Val Ser Gly Gln Thr Gln Phe Asn Gly Val Asn Val Leu
 130 135 140
 Ala Lys Asp Gly Ser Met Lys Ile Gln Val Gly Ala Asn Asp Gly Gln
 145 150 155 160
 Thr Ile Thr Ile Asp Leu Lys Lys Ile Asp Ser Asp Thr Leu Gly Leu
 165 170 175
 Asn Gly Phe Asn Val Asn Gly Lys Gly Thr Ile Ala Asn Lys Ala Ala
 180 185 190
 Thr Val Ser Asp Leu Thr Ser Ala Gly Ala Lys Leu Asn Ala Thr Thr
 195 200 205
 Gly Asn Tyr Asp Leu Thr Thr Thr Asn Lys Asp Leu Thr Thr Asp Val
 210 215 220
 Ala Phe Ser Lys Leu Lys Thr Gly Asp Thr Val Thr Thr Asn Gly Ala
 225 230 235 240
 Thr Tyr Thr Tyr Asp Ala Lys Ala Gly Asn Phe Thr Thr Thr Lys Ser
 245 250 255
 Thr Ala Gly Ala Asp Glu Ala Ala Lys Thr Ala Asn Arg Asp Ala Leu
 260 265 270
 Ser Ala Thr Leu Lys Ala Asp Pro Gly Gln Thr Val Ser Gly Thr Tyr
 275 280 285
 Thr Thr Lys Asp Gly Thr Val Asn Phe Asp Thr Asp Ser Ala Gly Asn
 290 295 300
 Ile Thr Ile Gly Gly Lys Ala Ala Tyr Val Asp Ala Ser Gly Asn Leu
 305 310 315 320
 Thr Thr Asn Asn Ala Gly Gly Ala Ala Asp Ala Thr Met Lys Ala Leu
 325 330 335
 Leu Lys Thr Ala Ser Glu Asn Thr Asp Gly Ala Thr Leu Asn Phe Lys
 340 345 350
 Gly Thr Glu Tyr Thr Val Ala Pro Gly Val Asp Ala Thr Asp Thr Gly
 355 360 365

Val Val Ser Tyr Lys Ala Thr Val Ser Ser Asp Val Val Leu Ala Glu
 370 375 380
 Thr Lys Ala Asn Ala Thr Asn Ile Ser Met Asn Ser Gly Val Leu Thr
 385 390 395 400
 Lys Asn Leu Ala Phe Asp Ala Thr Gly Ala Ser Thr Asp Asn Thr Phe
 405 410 415
 Val Asp Asp Ala Gly Asn Ile Thr Ser Val Glu Asp Tyr Thr Val Ser
 420 425 430
 Tyr Ala Val Asn Lys Asp Asn Gly Asn Val Thr Val Ala Ala Tyr Ser
 435 440 445
 Ser Ala Thr Asp Thr Asn Lys Thr Tyr Ser Pro Thr Ile Gly Ala Ala
 450 455 460
 Val Asn Val Thr Ser Thr Gly Lys Ile Thr Thr Glu Ala Thr Ser Val
 465 470 475 480
 Gly Thr Ala Thr Thr Asp Pro Leu Ala Ser Leu Asp Asp Ala Ile Ser
 485 490 495
 Ser Ile Asp Lys Phe Arg Ser Ser Leu Gly Ala Val Gln Asn Arg Leu
 500 505 510
 Ser Ser Ala Val Thr Asn Leu Asn Asn Thr Thr Thr Asn Leu Ser Glu
 515 520 525
 Ala Gln Ser Arg Ile Gln Asp Ala Asp Tyr Ala Thr Glu Val Ser Asn
 530 535 540
 Met Ser Lys Ala Gln Ile Ile Gln Gln Ala Gly Asn Ser Val Leu Ala
 545 550 555 560
 Lys Ala Asn Gln Val Pro Gln Gln Val Leu Ser Leu Leu Gln Gly
 565 570 575

<210> 8190

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 8190

Arg Cys Arg Arg Phe Leu Tyr Thr Thr Gln Lys Phe His Cys Ile Gly
 1 5 10 15
 Val Leu Met Lys Leu Ala Leu Leu Gly Arg Gln Ala Leu Met Gly Met
 20 25 30
 Met Ala Val Ala Leu Val Ala Gly Met Ser Val Lys Thr Phe Ala Ala
 35 40 45
 Glu Asn Leu Leu Asn Lys Val Lys Glu Arg Gly Thr Leu Leu Val Gly
 50 55 60
 Leu Glu Gly Thr Tyr Pro Pro Phe Ser Phe Gln Gly Asp Asp Gly Lys
 65 70 75 80
 Leu Thr Gly Phe Glu Val Glu Phe Ala Gln Glu Leu Ala Lys His Leu
 85 90 95
 Gly Val Lys Ala Ser Leu Lys Pro Thr Lys Trp Asp Gly Met Leu Ala
 100 105 110
 Ser Leu Asp Ser Lys Arg Ile Asp Val Val Ile Asn Gln Val Thr Ile
 115 120 125
 Ser Asp Glu Arg Lys Lys Lys Tyr Asp Phe Ser Thr Pro Tyr Thr Val
 130 135 140
 Ser Gly Ile Gln Ala Leu Val Lys Lys Gly Asn Glu Gly Ser Ile Lys
 145 150 155 160
 Ser Ala Ala Asp Leu Lys Gly Lys Lys Val Gly Val Gly Leu Gly Thr
 165 170 175
 Asn Tyr Glu Glu Trp Leu Arg Gln Asn Val Gln Gly Val Asp Ile Arg
 180 185 190
 Thr Tyr Asp Asp Asp Pro Thr Lys Tyr Gln Asp Leu Arg Val Gly Arg
 195 200 205
 Ile Asp Ala Ile Leu Val Asp Arg Leu Ala Ala Leu Asp Leu Val Lys
 210 215 220

Lys Thr Asn Asn Ser Leu Ala Val Ala Gly Asp Ala Phe Ser Arg Gln
 225 230 235 240
 Glu Ser Gly Val Ala Val Arg Lys Gly Asn Glu Asp Leu Leu Lys Ala
 245 250 255
 Ile Asp Gly Ala Ile Ala Glu Met Gln Lys Asp Gly Ser Leu Lys Ala
 260 265 270
 Leu Ser Glu Lys Trp Phe Gly Ala Asp Val Thr Lys
 275 280 285

<210> 8191

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 8191

Ser Lys Met Ser Ala Ile Asp Val Lys Asn Leu Val Lys Lys Phe His
 1 5 10 15
 Gly Gln Thr Val Leu His Gly Ile Asp Leu Glu Val Glu Gln Gly Glu
 20 25 30
 Val Val Ala Ile Ile Gly Pro Ser Gly Lys Thr Thr Leu Leu
 35 40 45
 Arg Ser Ile Asn Leu Leu Glu Gln Pro Glu Gly Gly Thr Ile Arg Val
 50 55 60
 Gly Asp Ile Thr Ile Asp Thr Gly Lys Pro Ile Ser Gln Gln Lys Gly
 65 70 75 80
 Leu Ile Arg Arg Leu Arg Gln His Val Gly Phe Val Phe Gln Ser Phe
 85 90 95
 Asn Leu Phe Pro His Arg Thr Val Leu Glu Asn Ile Ile Glu Gly Pro
 100 105 110
 Val Ile Val Lys Gly Glu Pro Lys Glu Asp Ala Thr Val Arg Ala Arg
 115 120 125
 Glu Leu Leu Ala Lys Val Gly Leu Ala Gly Lys Glu Thr Ser Tyr Pro
 130 135 140
 Arg Arg Leu Ser Gly Gly Gln Gln Gln Arg Val Ala Ile Ala Arg Ala
 145 150 155 160
 Leu Ala Met Arg Pro Asp Val Ile Leu Phe Asp Glu Pro Thr Ser Ala
 165 170 175
 Leu Asp Pro Glu Leu Val Gly Glu Val Leu Asn Thr Ile Arg Gln Leu
 180 185 190
 Ala Gln Glu Lys Arg Thr Met Val Ile Val Thr His Glu Met Ser Phe
 195 200 205
 Ala Arg Asp Val Ala Asp Arg Ala Ile Phe Met Asp Gln Gly Arg Ile
 210 215 220
 Val Glu Gln Gly Pro Ala Lys Ala Leu Phe Ala Asn Pro Gln Gln Pro
 225 230 235 240
 Arg Thr Arg Gln Phe Leu Glu Lys Phe Leu Met Gln
 245 250

<210> 8192

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 8192

Arg Asn Thr Leu Ser Arg Cys Gly Lys Leu Thr Ile Gly Pro Lys Leu
 1 5 10 15
 Val Leu Ser Ser Asn Arg Ser Pro Ala Arg Met Arg Pro Thr Arg Ser
 20 25 30
 Thr Ile Phe Cys Ser Asn Ala Ala Leu Asn Phe Ala Gly Thr Asn Thr
 35 40 45
 Arg Val Pro Leu Val His Thr Trp Pro Glu Leu Lys Lys Leu Ala Ile

50	55	60
Met Ala Ile Ser Ala	Ala Arg Ser Arg Ser	Ala Ser Ser Asn Thr Ile
65	70	75
Ser Gly Asp Leu Pro	Ser Ser Ile Val Thr Ser Phe Arg Asp Glu	80
	85	90
Ala Ala Glu Leu Ala	Ile Thr Phe Leu Pro Leu Ala Thr Pro Pro Val	95
	100	105
Lys Glu Thr Leu Ala	Met Pro Gly Cys Ser Val Arg Tyr Trp Pro Val	110
	115	120
Ser Ala Pro Thr Pro	Gly Arg Thr Leu Asn Thr Pro Ser Gly Arg Pro	125
	130	135
Ala Ser Val		140
145		

<210> 8193

<211> 311

<212> PRT

<213> Enterobacter cloacae

<400> 8193

Ser Pro Gln Glu Thr	Ser Ala Met His	Pro Arg Gln Gly Leu Lys Arg
1	5	10
Leu Leu Leu Gly	Ala Leu Leu Met Thr	Ala Thr Thr Thr Gly Ala Leu
	20	25
Ala Ala Glu Lys Phe	Gln Val Ile Thr Thr Phe Thr Val Ile Ala Asp	30
	35	40
Met Ala Lys Asn Val	Ala Gly Asp Ala Ala Glu Val Thr Ser Ile Thr	45
	50	55
Lys Pro Gly Ala Glu	Ile His Glu Tyr Gln Pro Thr Pro Gly Asp Ile	60
	65	70
Lys Arg Ala Gln Lys	Ala Gln Leu Ile Leu Ala Asn Gly Met Asn Leu	75
	85	90
Glu Leu Trp Phe Gln	Arg Phe Tyr Gln His Leu Asn Gly Val Pro Glu	95
	100	105
Val Ile Val Thr Lys	Gly Ile Thr Pro Met Gly Ile Ser Glu Gly Pro	110
	115	120
Tyr Asn Gly Lys Pro	Asn Pro His Ala Trp Met Ser Pro Asp Asn Ala	125
	130	135
Leu Ile Tyr Val Asp	Asn Ile Arg Asp Ala Leu Val Lys Tyr Asp Pro	140
	145	150
Ala Asn Ala Gln Thr	Tyr Gln Arg Asn Ala Asp Ala Tyr Lys Gln Lys	155
	165	170
Ile Thr Ala Thr Leu	Glu Pro Leu Arg Lys Gln Val Ala Glu Ile Pro	175
	180	185
Glu Asp Lys Arg Trp	Met Val Thr Ser Glu Gly Ala Phe Ser Tyr Leu	190
	195	200
Ala Arg Asp Leu Gly	Leu Lys Glu Leu Tyr Leu Trp Pro Ile Asn Ala	205
	210	215
Asp Gln Gln Gly Thr	Pro Gln Gln Val Arg Lys Val Ile Asp Leu Val	220
	225	230
Lys Lys His His Ile	Pro Ala Val Phe Ser Glu Ser Thr Val Ser Asp	235
	245	250
Lys Pro Ala Arg Gln	Val Ala Arg Glu Thr Gly Ala His Tyr Gly Gly	255
	260	265
Val Leu Tyr Val Asp	Ser Leu Ser Ala Glu Asn Gly Pro Val Pro Thr	270
	275	280
Tyr Ile Asp Leu Leu	Asn Val Thr Thr Arg Thr Leu Val Gln Gly Ile	285
	290	295
Arg Asp Gly Met Lys	Glu	300
305	310	

<210> 8194
 <211> 389
 <212> PRT
 <213> Enterobacter cloacae

<400> 8194

Thr Pro Glu Asn Ser Leu Leu His Ala Ala Gly Gly Leu Tyr Arg Gly
 1 5 10 15
 Gly Ala Ala Asn Arg Arg Arg Val Ser Gly Asp Leu Ser Gly Gly His
 20 25 30
 Ala Trp Arg Asp Arg Val Ala Ala Asp Arg Ser Leu Pro Ala Pro Ala
 35 40 45
 Asp Asp Cys Arg Arg His Trp Gln His His Gln Leu Pro Arg Arg Val
 50 55 60
 Gly Gln Leu Leu Pro Gly Arg Arg His Arg Arg His Tyr Arg Gly Arg
 65 70 75 80
 Pro Asp Ala Ala Val Pro Ala Gly Val Arg Leu Cys Ala Glu Ala Arg
 85 90 95
 Thr Ala Cys Gln Pro Ser Ser Gly Ala Gly Gly Thr Pro Met Met Thr
 100 105 110
 Leu Leu Leu Glu Pro Phe Gln Phe Ala Phe Met Asn Asn Ala Leu Leu
 115 120 125
 Ile Ser Leu Leu Val Ala Val Pro Cys Ala Leu Leu Ser Val Phe Leu
 130 135 140
 Val Leu Lys Gly Trp Ala Leu Met Gly Asp Ala Met Ser His Ala Val
 145 150 155 160
 Phe Pro Gly Val Val Leu Ala Trp Met Met Gly Leu Pro Leu Ala Leu
 165 170 175
 Gly Ala Phe Val Ala Gly Leu Phe Cys Ala Val Ala Thr Gly Tyr Leu
 180 185 190
 Lys Asp Asn Ser Arg Ile Lys Gln Asp Thr Val Met Gly Ile Val Phe
 195 200 205
 Ser Gly Met Phe Gly Ala Gly Leu Ile Leu Tyr Ile Ala Val Lys Pro
 210 215 220
 Glu Val His Leu Asp His Ile Leu Phe Gly Asp Met Leu Gly Ile Asn
 225 230 235 240
 Gly Met Asp Ile Leu Gln Ser Gly Leu Val Ala Gly Met Ile Ala Leu
 245 250 255
 Val Ile Gly Leu Lys Trp Arg Asp Phe Leu Leu Phe Cys Phe Asp Tyr
 260 265 270
 Gln Gln Ala Gln Ala Ser Gly Leu Arg Thr Arg Trp Leu His His Gly
 275 280 285
 Leu Leu Cys Met Val Ser Leu Thr Ile Val Ala Thr Leu Lys Ala Val
 290 295 300
 Gly Ile Ile Leu Ser Ile Ser Leu Leu Ile Ala Pro Gly Ala Val Ala
 305 310 315 320
 Val Leu Ile Thr Arg Arg Phe His Met Ala Leu Leu Val Ala Val Ala
 325 330 335
 Val Ser Ala Leu Val Ser Val Ser Gly Val Tyr Ala Ser Phe Tyr Leu
 340 345 350
 Asp Ser Ala Pro Ala Pro Thr Ile Val Val Leu Phe Ala Met Val Phe
 355 360 365
 Ile Val Thr Phe Val Val Thr Ser Val Lys Ala Arg Arg Gln Glu Arg
 370 375 380
 Val Thr Ala Glu
 385

<210> 8195
 <211> 460
 <212> PRT
 <213> Enterobacter cloacae

<400> 8195

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Pro Ala Arg Pro Glu Ser Glu Ser Ser Tyr Ser Leu Tyr Val Pro Leu
1      5      10      15
Leu Trp Leu Phe Asn Glu Arg Ala Ser His Ser Ala Gly Ile Thr Val
20      25      30
Leu Gln Met Gln Ile Val Ile Asn Asn Ile Ile Asn Lys Ile Cys Ser
35      40      45
Glu Thr Lys Lys Thr Val Lys His Gly Val Ile Arg Val Thr Val Leu
50      55      60
Thr Thr Gly Ser Glu Ala Trp Trp Gln Ala Lys Asn Gly Pro Glu Arg
65      70      75      80
Glu Arg His Gln Glu Asn Tyr Arg Val Thr Phe Trp Trp Arg Asp Pro
85      90      95
Ala Gly Thr Gln Lys Ser Ser Thr Val Lys Arg Val Trp Leu Tyr Val
100     105     110
Thr Gly Val Thr Asp His His Gln Asn Ala Arg Pro Gln Ser Leu Glu
115     120     125
Arg Val Pro Asp Thr Asp Val Trp Gln Trp Gln Gly Glu Phe Ser Pro
130     135     140
Glu Trp Arg Gly Ser Tyr Cys Phe Ile Pro Ser Asp Asn Glu Asn Asp
145     150     155     160
Phe Ala Asp Ala Val Phe Glu Gly Glu Gln Pro Asp Arg Met Ala Leu
165     170     175
Arg Glu Gly Trp Arg Lys Leu Leu Pro His Ala Val Ser Asp Pro Leu
180     185     190
Asn Pro Gln Ser Trp Arg Gly Gly Arg Gly His Ala Val Ser Ala Leu
195     200     205
Glu Met Pro Glu Ala Pro Val Gln Pro Gly Trp Asn His Pro Asp Thr
210     215     220
Pro Tyr Asn Lys Pro Val Cys Ile Asp Trp His Ser Ala Arg Leu Lys
225     230     235     240
Asn Arg Arg Arg Val Trp Ile Phe Thr Thr Gly Asp Glu Ser Pro Glu
245     250     255
Arg Pro Leu Ala Val Leu Leu Asp Gly Gln Phe Trp Ala Glu Ser Met
260     265     270
Pro Val Trp Pro Ala Leu Ala Ser Leu Thr His Glu Gly Lys Leu Pro
275     280     285
Pro Ala Val Tyr Val Leu Ile Asp Val Ile Asp Thr Ala His Arg Ser
290     295     300
Arg Glu Leu Pro Cys Asn Pro Asp Phe Trp Leu Ala Val Gln Glu Glu
305     310     315     320
Leu Leu Pro Gln Val Lys Ser Met Ala Pro Phe Ser Asp Arg Ala Asp
325     330     335
His Thr Val Val Ala Gly Gln Ser Phe Gly Gly Leu Ser Ser Leu Tyr
340     345     350
Ala Gly Leu Asn Trp Pro Gln Arg Phe Gly Cys Ile Leu Ser Gln Ser
355     360     365
Gly Ser Tyr Trp Trp Pro His Arg Gly Ala Gln Gln Asp Gly Leu Leu
370     375     380
Ile Glu Gln Leu Lys Ala Gly Glu Lys Thr Ala Arg Gly Leu Arg Ile
385     390     395     400
Val Leu Glu Ala Gly Arg Asn Glu Pro Leu Ile Leu Arg Ala Asn Gln
405     410     415
Ala Ile Leu Ala Glu Leu His Thr Gln Gln Pro Val Phe Trp Arg Gln
420     425     430
Val Asp Gly Gly His Asp Ala Leu Cys Trp Arg Gly Gly Leu Thr Gln
435     440     445
Gly Leu Met Thr Leu Trp Gln Pro Leu Ile Gln
450     455     460

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<210> 8196
 <211> 1295
 <212> PRT
 <213> Enterobacter cloacae

<400> 8196

Ala	Val	Leu	Phe	Cys	Gly	Gly	Ala	Arg	Met	Asn	Arg	Leu	Pro	Leu	Val
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Ala	Ala	Gln	Pro	Gly	Ile	Trp	Met	Ala	Glu	Gln	Leu	Ser	Ser	Leu	Pro
			20					25					30		
Asn	Ala	Trp	Ser	Val	Ala	His	Tyr	Thr	Glu	Leu	Lys	Gly	Ala	Ile	Asp
		35					40					45			
Ala	Pro	Leu	Leu	Ala	Lys	Ala	Ile	Ala	Glu	Gly	Met	Met	Gln	Ala	Asp
	50					55					60				
Thr	Leu	Arg	Met	Arg	Phe	Ala	Glu	Asp	His	Gly	Glu	Leu	Trp	Gln	Trp
65					70					75					80
Ile	Asp	Glu	Ala	Met	Leu	Leu	Pro	Glu	Pro	Ser	Ile	Val	Arg	Val	Asp
				85					90					95	
Ser	His	Asp	Ala	Ala	Val	Ala	Leu	Met	Glu	Ala	Asp	Leu	Asn	Gln	Asn
			100					105					110		
Leu	Arg	Val	Asp	Ser	Gly	Gln	Pro	Leu	Ala	Phe	His	Gln	Leu	Ile	Gln
		115					120					125			
Val	Gly	Glu	Ser	His	Trp	Tyr	Trp	Tyr	Gln	Arg	Tyr	His	His	Leu	Val
	130					135					140				
Val	Asp	Gly	Phe	Ser	Phe	Pro	Ala	Ile	Thr	Arg	Gln	Ile	Ala	Ala	Ile
145					150					155					160
Tyr	Ala	Ala	Trp	His	Lys	Gly	Glu	Pro	Ala	Pro	Ala	Ser	Pro	Phe	Thr
				165					170					175	
Pro	Phe	Ala	Glu	Val	Val	Glu	Glu	Tyr	Gln	Arg	Tyr	Arg	Asp	Ser	Glu
			180					185					190		
Ala	Tyr	Gln	Arg	Asp	Gly	Ala	Phe	Trp	Ala	Val	Gln	Arg	Gln	Gln	Leu
		195					200					205			
Pro	Ser	Pro	Val	Ser	Leu	Ser	Ser	Ala	Pro	Leu	Pro	Gly	His	Ala	Ala
	210					215					220				
Thr	Thr	Asp	Ile	Leu	Arg	Leu	Lys	Met	Ala	Met	Asp	Gly	Arg	Ala	Phe
225					230					235					240
Ser	Gln	Leu	Ala	Gln	Met	Ala	Gly	Gln	Ala	Gln	Arg	Thr	Asp	Leu	Ala
				245					250					255	
Leu	Ala	Leu	Val	Val	Leu	Trp	Leu	Gly	Arg	Leu	Thr	Gly	Arg	Leu	Asp
			260					265					270		
Tyr	Ala	Ala	Gly	Phe	Ile	Phe	Met	Arg	Arg	Met	Gly	Ser	Ala	Ala	Leu
		275					280					285			
Thr	Ala	Thr	Gly	Pro	Val	Leu	Asn	Val	Leu	Pro	Leu	Ala	Val	Asn	Ile
	290					295					300				
Arg	Pro	His	Glu	Ser	Leu	Pro	Glu	Leu	Ala	Leu	Arg	Leu	Ala	Asn	Gln
305					310					315					320
Leu	Lys	Lys	Met	Arg	Arg	His	Gln	Arg	Tyr	Asp	Ala	Glu	Gln	Ile	Val
				325					330					335	
Arg	Asp	Ser	Gly	Arg	Ala	Ala	Gly	Asp	Glu	Ala	Leu	Phe	Gly	Pro	Val
			340					345					350		
Leu	Asn	Val	Lys	Val	Phe	Asp	Tyr	Gln	Leu	Asp	Ile	Asp	Gly	Val	Glu
		355					360						365		
Ala	Ile	Thr	His	Thr	Leu	Ala	Thr	Gly	Pro	Val	Asn	Asp	Leu	Glu	Leu
		370				375					380				
Ala	Leu	Phe	Pro	Asp	Glu	Gln	Gly	Gly	Leu	Ser	Ile	Glu	Ile	Leu	Ala
385					390					395					400
Asn	Gly	Gln	Arg	Tyr	Asp	Glu	Ala	Thr	Leu	Lys	Gly	His	Ala	Val	Arg
				405					410					415	
Leu	Asn	Ala	Met	Leu	Thr	Gln	Phe	Ala	Ala	Asn	Pro	Asp	Leu	Arg	Cys
			420					425					430		
Gly	Asp	Val	Glu	Thr	Leu	Ser	Glu	Gln	Glu	Tyr	Ala	Arg	Leu	Ala	Arg

	435					440					445				
Ile	Asn	Asp	Thr	Gly	Leu	Ala	Leu	Pro	Ser	Thr	Thr	Leu	Ala	Asp	Leu
	450					455					460				
Val	Ala	Glu	Gln	Ala	Ser	Lys	Thr	Pro	Asp	Ala	Pro	Ala	Leu	Ala	Asp
465						470					475				480
Ala	His	Thr	Glu	Leu	Asn	Tyr	Arg	Gln	Met	Arg	Glu	Gln	Val	Val	Ala
				485					490					495	
Leu	Ala	Asn	Leu	Leu	Arg	Ala	Arg	Gly	Val	Lys	Pro	Gly	Asp	Ser	Val
		500						505					510		
Ala	Val	Ala	Leu	Pro	Arg	Ser	Val	Phe	Leu	Thr	Leu	Ala	Leu	His	Gly
		515					520					525			
Ile	Val	Glu	Ala	Gly	Ala	Ala	Trp	Leu	Pro	Leu	Asp	Thr	Gly	Tyr	Pro
	530					535					540				
Asp	Asp	Arg	Leu	Arg	Met	Met	Leu	Glu	Asp	Ala	Lys	Pro	Ser	Leu	Leu
545					550				555						560
Ile	Thr	Thr	Asp	Glu	Gln	Leu	Pro	Arg	Phe	Ser	Asp	Leu	Pro	Ile	Ala
				565					570					575	
Thr	Phe	Ser	Tyr	Asn	Thr	Leu	Leu	Pro	Thr	Ser	Gly	Ala	Glu	Pro	Leu
			580					585					590		
Arg	Leu	Ala	Lys	Pro	Glu	Gln	Thr	Ala	Tyr	Ile	Ile	Phe	Thr	Ser	Gly
		595					600					605			
Ser	Thr	Gly	Arg	Pro	Lys	Gly	Val	Met	Val	Gly	His	Thr	Ala	Ile	Val
	610					615					620				
Asn	Arg	Leu	Lys	Trp	Met	Gln	Asp	His	Tyr	Pro	Leu	Thr	Ala	His	Asp
625					630				635						640
Val	Val	Ala	Gln	Lys	Thr	Pro	Cys	Ser	Phe	Asp	Val	Ser	Val	Trp	Glu
				645					650					655	
Phe	Trp	Trp	Pro	Phe	Ile	Ala	Gly	Ala	Lys	Leu	Val	Met	Ala	Glu	Pro
			660				665						670		
Asp	Ala	His	Arg	Asp	Pro	Gln	Ala	Met	Gln	Ser	Phe	Phe	Ala	Glu	Tyr
		675				680						685			
Gly	Val	Thr	Thr	Thr	His	Phe	Val	Pro	Ser	Met	Leu	Ala	Ala	Phe	Val
	690				695						700				
Ala	Ser	Leu	Thr	Pro	Glu	Asn	Ala	His	Cys	Cys	Arg	Thr	Leu	Lys	Leu
705					710					715					720
Val	Phe	Cys	Ser	Gly	Glu	Ala	Leu	Pro	Thr	Ala	Leu	Cys	Arg	Glu	Trp
			725						730					735	
Glu	Gln	Leu	Thr	His	Ala	Pro	Leu	His	Asn	Leu	Tyr	Gly	Pro	Thr	Glu
			740					745					750		
Ala	Ala	Val	Asp	Val	Ser	Trp	Tyr	Pro	Ala	Tyr	Gly	Pro	Glu	Leu	Ala
		755					760					765			
Ala	Val	Glu	Gly	Asn	Ser	Val	Pro	Ile	Gly	Phe	Pro	Val	Trp	Asn	Thr
	770					775					780				
Gly	Leu	Arg	Ile	Leu	Asp	Ala	Met	Met	Arg	Pro	Val	Pro	Phe	Gly	Val
785					790				795						800
Ala	Gly	Asp	Leu	Tyr	Leu	Thr	Gly	Ile	Gln	Leu	Ala	Gln	Gly	Tyr	Leu
			805					810						815	
Gly	Arg	Pro	Asp	Leu	Thr	Ala	Ser	Arg	Phe	Ile	Ala	Asp	Pro	Phe	Ala
			820					825					830		
Pro	Gly	Glu	Arg	Met	Tyr	Arg	Thr	Gly	Asp	Val	Ala	Arg	Trp	Leu	Asp
		835					840					845			
Asn	Gly	Ala	Val	Glu	Tyr	Leu	Gly	Arg	Ser	Asp	Asp	Gln	Leu	Lys	Ile
	850					855					860				
Arg	Gly	Gln	Arg	Ile	Glu	Leu	Gly	Glu	Ile	Asp	Arg	Ala	Met	Leu	Ala
865					870				875						880
Leu	Pro	Asp	Val	Ala	Gln	Ala	Val	Ala	His	Ala	Cys	Val	Phe	Asn	Gln
			885						890					895	
Ala	Ala	Ala	Thr	Gly	Gly	Asp	Ala	Arg	Gln	Leu	Val	Gly	Tyr	Val	Val
			900				905					910			
Ser	Glu	Ser	Gly	Leu	Pro	Leu	Asp	Arg	Asp	Ala	Leu	Leu	Ala	Ser	Leu
		915					920					925			

Lys Ala Gln Leu Pro Pro His Met Val Pro Val Val Leu Leu Gln Ile
 930 935 940
 Ser Ala Leu Pro Leu Ser Ala Asn Gly Lys Leu Asp Arg Lys Ala Leu
 945 950 955 960
 Pro Leu Pro Glu Leu Thr Ser Arg Thr Ser Gly Arg Ala Pro Glu Thr
 965 970 975
 Gln Thr Glu Val Ala Val Ala Gln Ala Phe Ser Ser Leu Leu Gly Cys
 980 985 990
 Ala Val Asn Asp Ile Glu Ala Asp Phe Phe Ala Leu Gly Gly His Ser
 995 1000 1005
 Leu Leu Ala Met Arg Leu Ala Ala Gln Leu Ser Arg Ala Phe Ser Arg
 1010 1015 1020
 Lys Val Thr Pro Gly Gln Ile Met Val Ala Ser Thr Val Ser Lys Leu
 1025 1030 1035 1040
 Ser Ala Leu Leu Asp Ser Gln Met Arg Asp Glu Gln Ala Gln Arg Leu
 1045 1050 1055
 Gly Tyr Glu Thr Leu Leu Pro Leu Arg Glu Ser Asn Gly Pro Thr Leu
 1060 1065 1070
 Phe Cys Phe His Pro Ala Ser Gly Phe Ala Trp Gln Phe Ser Val Leu
 1075 1080 1085
 Ala Arg Tyr Leu Ser Pro Arg Trp Ser Ile Val Gly Ile Gln Ser Pro
 1090 1095 1100
 Arg Pro Asn Gly Pro Met Gln Gln Cys Ala Asp Leu Asp Gly Val Ile
 1105 1110 1115 1120
 Glu His His Leu Asn Thr Leu Arg Lys Gln Gln Pro Gln Gly Pro Tyr
 1125 1130 1135
 Tyr Leu Phe Gly Tyr Ser Leu Gly Gly Thr Leu Ala Gln Gly Ile Ala
 1140 1145 1150
 Ala Arg Leu Arg Glu Gln Gly Glu Ala Val Ala Phe Leu Gly Leu Leu
 1155 1160 1165
 Asp Thr Trp Pro Pro Glu Thr Gln Asn Trp Ala Glu Lys Glu Ala Asn
 1170 1175 1180
 Gly Leu Asp Pro Ala Val Leu Ala Glu Ile Glu Arg Glu Arg Gln Ala
 1185 1190 1195 1200
 Phe Ile Ala Ala Gln Gln Gly Gln Gly Ser Ser Glu Leu Phe Asn Ala
 1205 1210 1215
 Ile Glu Gly Asn Tyr Ala Asp Ala Val Arg Leu Leu Thr Thr Ala His
 1220 1225 1230
 Ser Ala Arg Phe Asp Gly Lys Ala Thr Leu Phe Val Ala Glu Arg Thr
 1235 1240 1245
 Arg Thr Gln Asp Pro Gln Ala Ala Trp Ala Pro Trp Val Gly Glu Leu
 1250 1255 1260
 Glu Val Tyr Ser Gln Asp Cys Ala His Val Asp Ile Ile Ser Pro Gln
 1265 1270 1275 1280
 Ala Phe Glu Lys Ile Gly Pro Val Leu Lys Glu Ile Leu Gly
 1285 1290 1295

<210> 8197

<211> 318

<212> PRT

<213> Enterobacter cloacae

<400> 8197

Ala Arg Leu Gln Arg Arg Ala Ala Pro Arg Gly Ala Gln Arg Leu Gly
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 Arg Ser His Tyr Tyr Arg Arg Arg Thr Pro Leu Arg Gly Ala Pro Thr
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 Gly Gly Gln Met Asn Ala Leu Leu Glu Pro Phe Gly Tyr Glu Tyr Met
 35 40 45
 Leu Asn Ala Met Trp Val Ser Ala Met Val Gly Gly Leu Cys Ala Phe
 50 55 60

Leu Ser Cys Tyr Leu Met Leu Lys Gly Trp Ser Leu Ile Gly Asp Ala
 65 70 75 80
 Leu Ser His Ser Ile Val Pro Gly Val Ala Gly Ala Tyr Met Leu Gly
 85 90 95
 Leu Pro Phe Ser Leu Gly Ala Phe Leu Ser Gly Gly Leu Ala Ala Gly
 100 105 110
 Ser Met Leu Phe Leu Asn Gln Arg Ser Arg Leu Lys Glu Asp Ala Ile
 115 120 125
 Ile Gly Leu Ile Phe Ser Ser Phe Phe Gly Leu Gly Leu Phe Met Val
 130 135 140
 Ser Leu Asn Pro Thr Ser Val Asn Ile Gln Thr Ile Val Leu Gly Asn
 145 150 155 160
 Ile Leu Ala Ile Ala Pro Glu Asp Ile Val Gln Leu Ala Ile Ile Gly
 165 170 175
 Val Val Ser Ile Val Ile Leu Leu Phe Lys Trp Lys Asp Leu Met Val
 180 185 190
 Thr Phe Phe Asp Glu Asn His Ala Arg Ala Ile Gly Leu Arg Pro Glu
 195 200 205
 Arg Leu Lys Ile Leu Phe Phe Thr Leu Leu Ala Val Ser Thr Val Ala
 210 215 220
 Ala Leu Gln Thr Val Gly Ala Phe Leu Val Ile Cys Leu Val Val Thr
 225 230 235 240
 Pro Gly Ala Thr Ala Trp Leu Leu Thr Asp Arg Phe Pro Arg Leu Leu
 245 250 255
 Met Ile Ala Val Ala Ile Gly Ser Ile Thr Ser Phe Leu Gly Ala Trp
 260 265 270
 Ala Ser Tyr Tyr Leu Asp Gly Ala Thr Gly Gly Ile Ile Val Val Ala
 275 280 285
 Gln Thr Leu Leu Phe Leu Leu Ala Phe Val Phe Ala Pro Lys His Gly
 290 295 300
 Leu Leu Ala Ser Arg Arg Arg Ala Arg Glu Ala His Pro
 305 310 315

<210> 8198

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 8198

Pro Ser Gly Ser Arg Leu Phe Asn Asn Gly Val Cys Met Glu Phe Ser
 1 5 10 15
 Asn Pro Phe Asp Asn Pro Gln Gly Gln Phe Ala Ile Leu Gln Asn Asp
 20 25 30
 Gln Gly Gln Tyr Ser Leu Trp Pro Gln Gln Cys Glu Leu Pro Ala Gly
 35 40 45
 Trp Arg Val Val Cys Glu Pro Gln Ser Lys Glu Ala Cys Gln Gln Trp
 50 55 60
 Leu Ala Glu Gln Trp Gln Thr Leu Glu Pro Phe Tyr Phe Ala Gly Glu
 65 70 75 80
 Arg Ala

<210> 8199

<211> 507

<212> PRT

<213> Enterobacter cloacae

<400> 8199

Thr Ser Arg Leu Lys Tyr Gly Leu Glu Phe Thr His Leu Asn Leu Asp
 1 5 10 15
 Gly Leu His Leu Gly Val Thr Leu Lys Arg His Asp Ala Val Leu Thr

							20					25					30				
Ala	Asn	Ala	Gly	Val	Phe	Val	Ala	Ala	His	Arg	His	Leu	Arg	Gly	Gly						
		35					40					45									
Phe	Ala	Pro	Gly	Val	Asp	Pro	Ala	Asp	Ala	Arg	Phe	Glu	Leu	Met	Asn						
	50					55					60										
Ser	Ala	Val	Gly	Ala	Val	Gln	Ile	Gly	Gly	Asp	Asn	Ala	Arg	Arg	Gln						
65					70					75					80						
Thr	Val	Val	Gly	Val	Ile	Gly	Ala	Ala	Asn	Gly	Phe	Phe	Val	Ser	Val						
				85					90					95							
Ile	Gly	Lys	Asn	Gly	His	His	Arg	Ala	Glu	Asp	Leu	Phe	Ala	His	Asp						
			100					105					110								
Gly	His	Phe	Val	Gly	Ala	Val	Gly	Glu	His	Gly	Arg	Gly	His	Pro	Arg						
		115					120					125									
Ala	Val	Val	Lys	Ala	Val	Thr	Leu	Gln	His	Val	Thr	Ala	Ala	Gln	His						
	130					135					140										
Ala	Arg	Ala	Phe	Leu	Phe	Ala	Phe	Gly	Asp	Val	Ala	Gln	His	Ala	Val						
145				150						155				160							
Pro	Val	Arg	Glu	Ala	Asn	His	Arg	Ala	Lys	Val	Gly	Ala	Phe	Ile	Glu						
			165						170					175							
Gln	Ile	Ala	Arg	Ala	Asp	Ala	Ala	His	Ala	Leu	Asn	Asp	Phe	Leu	Leu						
			180				185						190								
Lys	Arg	Gly	Phe	Glu	Leu	Arg	Gly	His	Glu	His	Ala	Gly	Ala	Ile	Gly						
		195					200					205									
Ala	His	Leu	Ala	Gly	Ala	Glu	Glu	Ile	Gly	His	His	Gly	Asp	Ile	Cys						
	210					215					220										
Arg	Glu	Ile	Gln	Ile	Arg	Ile	Val	Lys	His	Tyr	Gln	Arg	Gly	Phe	Thr						
225				230						235					240						
Ala	Gln	Leu	His	Arg	His	Leu	Phe	Gln	Gly	Arg	Gly	Arg	Arg	Val	Gly						
			245						250					255							
His	His	Phe	Phe	Ala	Ala	Gly	Asp	Ala	Ala	Gly	Lys	Gly	Asp	Phe	Gly						
		260						265					270								
Asp	Ala	Arg	Met	Leu	Gly	Gln	Val	Leu	Ala	Ser	Leu	Arg	Ala	Tyr	Ala						
		275					280					285									
Arg	Gln	Asp	Val	Lys	His	Ala	Val	Arg	Gln	Ala	Arg	Phe	Gly	Val	Asp						
	290					295					300										
Phe	Ser	Lys	Leu	Gln	Gly	Gly	Lys	Arg	Cys	His	Phe	Ala	Arg	Leu	Glu						
305					310					315					320						
Asp	His	Cys	Val	Ala	Arg	Arg	Gln	Arg	Arg	Arg	Gly	Phe	Pro	Gln	Gly						
			325																		

<210> 8200
 <211> 681
 <212> PRT
 <213> Enterobacter cloacae

<400> 8200

Gly	Tyr	Trp	Met	Thr	Asp	Leu	Ser	Gln	Asp	Arg	Glu	Lys	Asp	Lys	Ile
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Asn	Pro	Val	Val	Phe	Tyr	Thr	Ser	Ala	Gly	Leu	Ile	Leu	Leu	Phe	Ser
		20						25					30		
Leu	Thr	Thr	Ile	Phe	Phe	Arg	Asp	Phe	Ser	Ala	Glu	Trp	Ile	Gly	Arg
	35						40					45			
Thr	Leu	Asp	Trp	Val	Ser	Lys	Thr	Phe	Gly	Trp	Tyr	Tyr	Leu	Leu	Ala
	50					55					60				
Ala	Thr	Leu	Tyr	Ile	Val	Phe	Val	Val	Cys	Ile	Ala	Cys	Ser	Arg	Phe
65					70				75						80
Gly	Ser	Val	Lys	Leu	Gly	Pro	Glu	Gln	Ser	Lys	Pro	Glu	Phe	Ser	Leu
			85						90					95	
Leu	Ser	Trp	Ala	Ala	Met	Leu	Phe	Ala	Ala	Gly	Ile	Gly	Ile	Asp	Leu
		100						105					110		
Met	Phe	Phe	Ser	Val	Ala	Glu	Pro	Val	Thr	Gln	Tyr	Met	Gln	Pro	Pro
	115						120					125			
Glu	Gly	Ala	Gly	Gln	Thr	Met	Glu	Ala	Ala	Arg	Gln	Ala	Met	Val	Trp
	130					135					140				
Thr	Leu	Phe	His	Tyr	Gly	Leu	Thr	Gly	Trp	Ser	Met	Tyr	Ala	Leu	Met
145					150					155					160
Gly	Met	Ala	Leu	Gly	Tyr	Phe	Ser	Tyr	Arg	Tyr	Asn	Leu	Pro	Leu	Thr
			165						170					175	
Ile	Arg	Ser	Ala	Leu	Tyr	Pro	Ile	Phe	Gly	Lys	Lys	Ile	Asn	Gly	Pro
		180						185					190		
Ile	Gly	His	Ser	Val	Asp	Ile	Ala	Ala	Val	Ile	Gly	Thr	Ile	Phe	Gly
	195						200					205			
Ile	Ala	Thr	Thr	Leu	Gly	Ile	Gly	Val	Val	Gln	Leu	Asn	Tyr	Gly	Leu
	210					215					220				
Ser	Val	Leu	Phe	Asp	Ile	Pro	Asp	Ser	Met	Ala	Ala	Lys	Ala	Ala	Leu
225				230					235						240
Ile	Ala	Leu	Ser	Val	Ile	Ile	Ala	Thr	Ile	Ser	Val	Thr	Ser	Gly	Val
			245						250					255	
Asp	Lys	Gly	Ile	Arg	Val	Leu	Ser	Glu	Leu	Asn	Val	Ala	Leu	Ala	Leu
			260					265					270		
Gly	Leu	Ile	Leu	Phe	Val	Leu	Phe	Met	Gly	Asp	Thr	Ser	Phe	Leu	Leu
	275						280					285			
Asn	Ala	Leu	Val	Leu	Asn	Val	Gly	Asp	Tyr	Val	Asn	Arg	Phe	Met	Gly
	290					295					300				
Met	Thr	Leu	Asn	Ser	Phe	Ala	Phe	Asp	Arg	Pro	Thr	Glu	Trp	Met	Asn
305				310					315						320
Asn	Trp	Thr	Leu	Phe	Trp	Ala	Trp	Trp	Val	Ala	Trp	Ser	Pro	Phe	
			325						330				335		
Val	Gly	Leu	Phe	Leu	Ala	Arg	Ile	Ser	Arg	Gly	Arg	Thr	Ile	Arg	Gln
			340					345					350		
Phe	Val	Met	Gly	Thr	Leu	Ile	Ile	Pro	Phe	Thr	Phe	Thr	Leu	Leu	Trp
	355						360					365			
Leu	Ser	Ile	Phe	Gly	Asn	Ser	Ala	Leu	His	Glu	Ile	Ile	His	Gly	Asn
	370					375					380				
Ala	Thr	Phe	Ala	Gln	Glu	Ala	Met	Ala	His	Pro	Glu	Arg	Gly	Phe	Tyr
385					390					395					400
Ser	Leu	Leu	Ala	Gln	Tyr	Pro	Ala	Phe	Thr	Phe	Ser	Ala	Ser	Val	Ala
			405						410					415	
Thr	Ile	Thr	Gly	Leu	Leu	Phe	Tyr	Val	Thr	Ser	Ala	Asp	Ser	Gly	Ala
			420					425					430		

Leu Val Leu Gly Asn Phe Thr Ser Lys Leu Lys Asp Ile Asn Ser Asp
 435 440 445
 Ala Pro Asn Trp Leu Arg Ile Phe Trp Ser Val Ala Ile Gly Leu Leu
 450 455 460
 Thr Leu Gly Met Leu Met Thr Asn Gly Ile Ser Ala Leu Gln Asn Thr
 465 470 475 480
 Thr Val Ile Met Gly Leu Pro Phe Ser Phe Val Ile Phe Phe Val Met
 485 490 495
 Ala Gly Leu Tyr Lys Ser Leu Lys Val Glu Asp Tyr Arg Arg Val Ser
 500 505 510
 Ala Ser Arg Asp Thr Ala Pro Arg Pro Leu Gly Ala Gln Asp Arg Leu
 515 520 525
 Ser Trp Lys Lys Arg Leu Ser Arg Leu Met Asn Tyr Pro Gly Thr Arg
 530 535 540
 Tyr Thr Lys Gln Met Met Glu Thr Val Cys Phe Pro Ala Met Glu Glu
 545 550 555 560
 Val Ala Gln Glu Leu Lys Leu Arg Gly Ala Tyr Val Glu Leu Lys Asn
 565 570 575
 Leu Pro Pro Glu Gly Glu Asn Leu Gly His Leu Asp Leu Leu Val
 580 585 590
 His Met Gly Asp Glu Gln Asn Phe Val Tyr Gln Ile Trp Pro Gln Gln
 595 600 605
 Tyr Ser Val Pro Gly Phe Thr Tyr Arg Ala Arg Ser Gly Lys Ser Thr
 610 615 620
 Tyr Tyr Arg Leu Glu Thr Phe Leu Leu Glu Gly Ser Gln Gly Asn Asp
 625 630 635 640
 Leu Met Asp Tyr Ser Lys Glu Gln Val Ile Thr Asp Ile Leu Asp Gln
 645 650 655
 Tyr Glu Arg His Leu Asn Phe Ile His Leu His Arg Glu Ala Pro Gly
 660 665 670
 Asn Ser Val Met Phe Pro Asp Ala
 675 680

<210> 8201

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 8201

Cys Leu Leu Tyr Leu Leu Leu Glu Val Tyr Tyr Val Arg Leu Tyr Val
 1 5 10 15
 Val Pro Arg Tyr Lys Met Ser Ile Phe Asp Glu Leu Lys Thr Ser Leu
 20 25 30
 Glu Glu Ala Val Glu Ile His Ser Gly Arg Lys Ala Ala Ser Arg Val
 35 40 45
 Thr Arg Tyr Glu Val Ala Asp Val Arg Ala Ile Arg Glu Gln Leu Asn
 50 55 60
 Ile Thr Gln Ser Glu Met Ala Lys Ala Leu Gly Thr Ser Val Asp Thr
 65 70 75 80
 Ile Lys Ser Trp Glu Ser Lys Arg Arg Asn Pro Thr Gly Leu Ala Ala
 85 90 95
 Lys Val Leu Asn Val Ile Arg Glu Asn Pro Ala Phe Tyr Lys Ala Leu
 100 105 110
 Ala Gly Gln
 115

<210> 8202

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 8202

```

Asn Arg Arg Pro Leu Trp Arg Arg Ala Val Arg Arg Leu Ser Glu Arg
1      5      10      15
Gly Lys Arg Pro Gly Ala Asn Leu Tyr Arg Ser Ala Glu Arg His His
20      25      30
Pro His Ala Gly Ala Gly His Pro Arg Arg Asp Glu Gly Val Ile Met
35      40      45
Gln Lys Gly Ile Val Val Thr Asp Val Thr Val Thr Tyr Arg Asn Gly
50      55      60
His Thr Ala Leu Arg Asp Ala Ser Phe Ser Val Pro Gly Gly Ser Ile
65      70      75      80
Ala Ala Leu Val Gly Val Asn Gly Ser Gly Lys Ser Thr Leu Phe Lys
85      90      95
Ala Val Met Gly Phe Val Arg Ala Ala Ser Gly Thr Ile Ser Ile Leu
100     105     110
Gly Leu Pro Pro His Arg Ala Leu Arg Gln Asn Leu Val Ala Tyr Val
115     120     125
Pro Gln Ser Glu Glu Val Asp Trp Ser Phe Pro Val Leu Val Glu Asp
130     135     140
Val Val Met Met Gly Arg Tyr Gly His Met Gly Phe Leu Arg Arg Pro
145     150     155     160
Lys Glu Cys Asp Lys Gln Ile Val Thr Asp Ala Leu Lys Arg Val Asp
165     170     175
Met Leu Glu Leu Arg His Arg Gln Ile Gly Glu Leu Ser Gly Gly Gln
180     185     190
Lys Lys Arg Val Phe Leu Ala Arg Ala Ile Ala Gln Gln Gly Glu Val
195     200     205
Ile Leu Leu Asp Glu Pro Phe Thr Gly Val Asp Val Lys Thr Glu Ala
210     215     220
Arg Ile Ile Ser Leu Leu Arg Glu Leu Arg Asp Glu Gly Lys Thr Met
225     230     235     240
Leu Val Ser Thr His Asn Leu Gly Ser Val Thr Glu Phe Cys Asp Tyr
245     250     255
Thr Val Met Val Lys Gly Thr Val Leu Ala Ser Gly Pro Thr Asp Ile
260     265     270
Thr Phe Thr Ala Glu Asn Leu Glu Arg Ala Phe Ser Gly Val Leu Arg
275     280     285
His Val Val Leu Ser Gly Ser Glu Asp Arg Ile Ile Thr Asp Asp Glu
290     295     300
Arg Pro Phe Val Ala His Arg Gln Glu Ala Lys
305     310     315

```

<210> 8203

<211> 118

<212> PRT

<213> Enterobacter cloacae

<400> 8203

```

Arg Arg Gly Val Ala Asp Cys Ala Val Pro Arg Val Gly Thr Ala His
1      5      10      15
Pro Cys Ala Ala Ala Gln Pro Leu Trp Pro Asp Arg Ser Gly Gly Gly
20      25      30
Arg Gln Leu Val Ser Gly Val Arg Pro Arg Ala Gly Gly Gly Gly Arg
35      40      45
Glu Gln Arg Ala Asp Arg Leu Pro Gly Val Glu Tyr Gly Ala Ala His
50      55      60
Ser Gly Arg Asp Asp Ala Pro Gly Ala Val Arg Arg Gly Gly Gly Ser
65      70      75      80
Val Ser His Arg His Pro Ala Gly Ala Gly Val Ser Gly Thr Pro Arg
85      90      95
Pro Tyr Arg Gln Pro Leu Tyr Arg Arg Pro Val Arg Ala Gly Arg Ala

```

100
Asp Val Pro His Arg
115

105

110

<210> 8204
<211> 421
<212> PRT
<213> Enterobacter cloacae

<400> 8204

Thr	Gln	Gly	Phe	Val	Met	Asn	Gln	Lys	Ser	Trp	Leu	Leu	Asn	Leu	Ser
1				5					10					15	
Leu	Leu	Lys	Thr	His	Pro	Ala	Tyr	Arg	Ala	Val	Phe	Ile	Ala	Arg	Phe
			20					25					30		
Ile	Ser	Ile	Leu	Ser	Leu	Gly	Leu	Leu	Gly	Val	Ala	Val	Pro	Val	Gln
		35					40					45			
Ile	Gln	Thr	Ile	Thr	His	Ser	Ser	Trp	Leu	Val	Gly	Leu	Ser	Val	Thr
		50				55					60				
Leu	Thr	Gly	Gly	Ala	Met	Phe	Ile	Gly	Leu	Met	Val	Gly	Gly	Val	Leu
65					70					75					80
Ala	Asp	Arg	Tyr	Glu	Arg	Lys	Lys	Leu	Ile	Leu	Leu	Ala	Arg	Gly	Thr
				85					90					95	
Cys	Gly	Val	Gly	Phe	Val	Gly	Leu	Cys	Leu	Asn	Ala	Met	Leu	Pro	Glu
			100					105					110		
Pro	Ser	Leu	Val	Ala	Ile	Tyr	Val	Leu	Gly	Leu	Trp	Asp	Gly	Phe	Phe
		115					120					125			
Ala	Ser	Leu	Gly	Val	Thr	Ala	Leu	Leu	Ala	Ala	Thr	Pro	Ala	Leu	Val
		130				135					140				
Gly	Arg	Glu	Asn	Leu	Met	Gln	Ala	Gly	Ala	Ile	Thr	Met	Leu	Thr	Val
145					150					155					160
Arg	Leu	Gly	Ser	Val	Ile	Ser	Pro	Met	Val	Gly	Gly	Leu	Leu	Leu	Ala
				165					170					175	
Thr	Gly	Asn	Val	Ala	Trp	Asn	Tyr	Gly	Leu	Ala	Ala	Ala	Gly	Thr	Phe
			180				185						190		
Ile	Thr	Thr	Leu	Thr	Leu	Leu	Arg	Leu	Pro	Leu	Leu	Pro	Pro	Pro	Pro
		195					200					205			
Gln	Pro	Arg	Glu	His	Pro	Leu	Lys	Ser	Leu	Met	Ala	Ala	Ile	Arg	Phe
	210					215					220				
Leu	Phe	Ser	Asn	Pro	Leu	Ile	Gly	Gly	Ile	Ala	Leu	Leu	Gly	Gly	Leu
225					230					235					240
Leu	Thr	Met	Ala	Ser	Ala	Val	Arg	Val	Leu	Tyr	Pro	Ala	Leu	Ala	Gly
				245					250					255	
Glu	Trp	Gln	Met	Ser	Ala	Ser	Glu	Ile	Gly	Val	Leu	Tyr	Ala	Ala	Ile
			260				265						270		
Pro	Leu	Gly	Ala	Ala	Cys	Gly	Ala	Leu	Thr	Ser	Gly	Asn	Leu	Ala	Gln
		275					280					285			
Ser	Ala	Arg	Pro	Gly	Leu	Ile	Met	Leu	Val	Ala	Thr	Leu	Ala	Ser	Phe
		290				295					300				
Ile	Ala	Ile	Gly	Phe	Phe	Ser	Leu	Met	Pro	Val	Trp	Ala	Leu	Gly	Val
305					310					315					320
Met	Cys	Leu	Val	Ile	Phe	Gly	Trp	Leu	Ser	Ala	Val	Ser	Ser	Leu	Leu
				325					330					335	
Gln	Tyr	Thr	Leu	Ile	Gln	Thr	Gln	Thr	Pro	Glu	Gly	Met	Leu	Gly	Arg
			340					345					350		
Ile	Asn	Gly	Leu	Trp	Thr	Ala	Gln	Asn	Val	Thr	Gly	Asp	Ala	Ile	Gly
		355					360					365			
Ala	Ala	Ile	Leu	Gly	Gly	Met	Gly	Ala	Ile	Met	Thr	Pro	Val	Ala	Ser
		370				375					380				
Ala	Ser	Ser	Ser	Gly	Phe	Val	Leu	Ala	Met	Ile	Gly	Ala	Ile	Leu	Leu
385					390					395					400
Val	Thr	Leu	Val	Glu	Leu	Arg	Arg	Phe	Arg	Gln	Glu	Val	Ala	Leu	Asn

```

<210> 8206
<211> 440
<212> PRT
<213> Enterobacter cloacae

<400> 8206
His Arg Asp Arg Pro Arg Gln Pro Arg Gly Ala Tyr Ala Ala Asp Gly
1          5          10          15

```

Pro Ala Cys His His Arg Ala Val Arg Gln Arg Asp Arg Arg Gly Arg
 20 25 30
 Pro Asp Cys Leu Tyr Arg Pro Asp Ala Ala His Gly Ala Leu Ala
 35 40 45
 Gly Gly Gly Gly Ser Pro Leu Val Pro Pro Gly Asn Ala Ala Gly Asp
 50 55 60
 Pro Cys Pro Ala Ala Val Cys Arg Arg Ala Gly Pro Pro Ala Gly Ala
 65 70 75 80
 Gly Arg Thr Ala Cys Leu Gly Gly Gln Arg Leu Tyr Arg Arg Ala Gly
 85 90 95
 Ala Asp Leu Pro Gly Thr Thr Gln Thr Arg Gly Trp Arg Met Met Ala
 100 105 110
 Pro Ser Arg Arg Leu Leu Thr Ser Val Ala Leu Leu Val Val Ala Cys
 115 120 125
 Leu Leu Leu Ala Val Trp Ser Leu Gln Ser Gly Ala Val Thr Leu Asp
 130 135 140
 Phe Ala Gln Val Phe His Ala Leu Thr Gly Ser Ala Pro Arg Asn Ile
 145 150 155 160
 Thr Met Val Val Thr Glu Trp Arg Leu Pro Arg Val Ala Met Ala Ile
 165 170 175
 Leu Val Gly Ala Ala Leu Gly Val Ser Gly Ala Ile Phe Gln Ser Leu
 180 185 190
 Met Arg Asn Pro Leu Gly Ser Pro Asp Val Met Gly Leu Asn Thr Gly
 195 200 205
 Ala Trp Ser Gly Val Leu Val Ala Met Val Leu Phe Gly Gln His Leu
 210 215 220
 Thr Ala Ile Thr Phe Thr Ala Met Ala Gly Gly Ile Leu Thr Ser Leu
 225 230 235 240
 Leu Ile Trp Ala Leu Ala Trp Arg Asn Gly Ile Asp Thr Phe Arg Leu
 245 250 255
 Ile Ile Ile Gly Ile Gly Ile Arg Ala Met Leu Met Ala Phe Asn Thr
 260 265 270
 Trp Leu Leu Leu Gln Ala Ser Leu Glu Thr Ala Leu Ser Ala Gly Leu
 275 280 285
 Trp Tyr Ala Gly Ser Leu Asn Gly Leu Thr Trp Val Lys Thr Trp Pro
 290 295 300
 Ala Ala Pro Leu Ile Ile Leu Met Phe Ile Gly Ala Leu Leu Leu Val
 305 310 315 320
 Arg Arg Met Arg Leu Leu Glu Met Gly Asp Asp Ser Ala Cys Ala Leu
 325 330 335
 Gly Val Ser Val Glu Arg Ser Arg Leu Met Leu Met Leu Val Ala Val
 340 345 350
 Leu Leu Thr Ala Ala Ser Thr Ala Ile Ala Gly Pro Ile Ser Phe Ile
 355 360 365
 Ala Leu Val Ala Pro His Ile Ala Arg Arg Leu Ser Gly Thr Ala Arg
 370 375 380
 Trp Gly Leu Thr Gln Ala Ala Leu Cys Gly Ala Val Leu Leu Leu Ala
 385 390 395 400
 Ala Asp Leu Cys Ala Gln Arg Leu Phe Thr Pro Tyr Gln Leu Pro Val
 405 410 415
 Gly Val Val Thr Val Ser Leu Gly Gly Ile Tyr Leu Ile Val Leu Leu
 420 425 430
 Val Gln Glu Ser Arg Lys Lys
 435 440

<210> 8207

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 8207

```

Asp Thr Phe Tyr Ile Glu Arg Pro Ile Lys Asn Arg Phe Asn Arg Leu
1      5      10      15
Pro Thr Leu Met Asn Gly Val Ala Lys Met Pro Lys Val Gly Met Gln
20      25      30
Pro Ile Arg Arg Arg Gln Leu Ile Asp Ala Thr Leu Glu Ala Ile Asn
35      40      45
Glu Val Gly Met His Asp Ala Thr Ile Ala Gln Ile Ala Arg Arg Ala
50      55      60
Gly Val Ser Thr Gly Ile Ile Ser His Tyr Phe Lys Asp Lys Asn Gly
65      70      75      80
Leu Leu Glu Ala Thr Met Arg Asp Ile Thr Gly Gln Leu Arg Asp Ala
85      90      95
Val Leu Ser Arg Leu Arg Ala Leu Pro Asp Gly Ser Ala Glu Gln Arg
100     105     110
Leu Gln Ala Ile Val Gly Gly Asn Phe Asp Glu Thr Gln Val Ser Gly
115     120     125
Ala Ala Met Lys Ala Trp Leu Ala Phe Trp Ala Ser Ser Met His Gln
130     135     140
Pro Met Leu Tyr Arg Leu Gln Gln Val Ser Ser Arg Arg Leu Leu Ser
145     150     155     160
Asn Leu Val Tyr Glu Phe Arg Arg Glu Leu Pro Arg Glu Gln Ala Glu
165     170     175
Glu Ala Gly Tyr Gly Leu Ala Ala Leu Ile Asp Gly Leu Trp Leu Arg
180     185     190
Ala Ala Leu Ser Gly Lys Pro Leu Asp Lys Thr Leu Ala Gln Ser Leu
195     200     205
Thr Ser His Phe Ile Ser Gln His Leu Pro Thr Asp
210     215     220

```

<210> 8208

<211> 353

<212> PRT

<213> Enterobacter cloacae

<400> 8208

```

Pro Asn Lys Ile Asp Asn Asp Asn His Tyr His Tyr Gln Ile Met Asp
1      5      10      15
Val Ala Met Ser Phe Ser Ser Ser Ala Val Arg Ala Leu Ala Val Pro
20      25      30
Val Leu Leu Leu Leu Ile Leu Ala Ile Ala Leu Ser Leu Leu Val
35      40      45
Gly Ala Lys Pro Leu Pro Ala Ser Val Ile Val Asp Ala Leu Ser Gly
50      55      60
Thr Cys Gln Ser Ala Asp Cys Thr Ile Val Leu Asp Ala Arg Leu Pro
65      70      75      80
Arg Thr Leu Ala Gly Leu Leu Ala Gly Gly Ala Leu Gly Leu Ala Gly
85      90      95
Ala Leu Met Gln Thr Leu Thr Arg Asn Pro Leu Ala Asp Pro Gly Ile
100     105     110
Leu Gly Val Asn Ser Gly Ala Ser Phe Ala Ile Val Leu Gly Ala Ala
115     120     125
Leu Phe Gly Phe Thr Ser Pro Ser Glu Gln Leu Val Met Ala Phe Cys
130     135     140
Gly Ala Leu Ala Ala Ser Leu Val Val Ala Phe Thr Gly Ser Gln Gly
145     150     155     160
Gly Gly Gln Leu Ser Pro Val Arg Leu Thr Leu Ala Gly Val Ala Leu
165     170     175
Ala Ala Val Leu Glu Gly Leu Ser Asn Gly Ile Ala Leu Leu Asn Pro
180     185     190
Asp Val Tyr Asp Gln Leu Arg Phe Trp Gln Ala Gly Ser Leu Asp Ile
195     200     205

```

```

Arg Thr Leu Glu Thr Leu Lys Val Val Val Ile Pro Ala Ser Val Ala
 210      215      220
Ala Ala Val Ala Leu Cys Leu Ser Arg Ala Leu Asn Ser Leu Ser Leu
225      230      235      240
Gly Ser Asp Thr Ala Thr Ala Leu Gly Asn Arg Val Ala Arg Thr Gln
      245      250      255
Leu Thr Gly Leu Leu Ala Ile Thr Val Leu Cys Gly Ser Ala Thr Ala
      260      265      270
Val Val Gly Pro Ile Ala Phe Ile Gly Leu Met Met Pro His Met Ala
      275      280      285
Arg Trp Leu Val Gly Ala Asp His Arg Trp Ser Leu Pro Val Thr Leu
      290      295      300
Leu Ala Thr Pro Ala Leu Leu Phe Ala Asp Val Leu Gly Arg Leu
305      310      315      320
Leu Val Pro Gly Glu Leu Arg Val Ser Val Val Ser Ala Phe Ile Gly
      325      330      335
Ala Pro Val Leu Ile Phe Leu Val Arg Arg Arg Arg Gly Gly Gly Ala
      340      345      350

```

<210> 8209

<211> 531

<212> PRT

<213> Enterobacter cloacae

<400> 8209

```

Leu Thr Gly Cys Gly Cys Ala Leu Arg Ser Ala Ala Asn Arg Trp Ile
1      5      10      15
Lys Pro Trp Pro Ser Arg Leu Pro Ala Thr Leu Ser Ala Ser Ile Tyr
      20      25      30
Arg Pro Thr Asn Arg Gly Glu Phe Met Ser Arg Met Ala Glu Gln Gln
      35      40      45
Leu Tyr Ile Asn Gly Gly Tyr Thr Ser Ala Thr Ser Gly Arg Thr Phe
      50      55      60
Glu Thr Ile Asn Pro Ala Asn Gly Glu Val Leu Ala Thr Val Gln Ala
      65      70      75      80
Ala Gly Arg Glu Asp Val Asp Arg Ala Val Glu Ser Ala Lys Arg Gly
      85      90      95
Gln Lys Ile Trp Ala Ala Met Thr Ala Met Glu Arg Ser Arg Ile Leu
      100      105      110
Arg Arg Ala Val Asp Ile Leu Arg Glu Arg Asn Asp Glu Leu Ala Thr
      115      120      125
Leu Glu Thr Leu Asp Thr Gly Lys Ala Tyr Ser Glu Thr Ser Thr Val
      130      135      140
Asp Ile Val Thr Gly Ala Asp Val Leu Glu Tyr Tyr Ala Gly Leu Ile
      145      150      155      160
Pro Ala Leu Glu Gly Ser Gln Ile Pro Leu Arg Asp Thr Ser Phe Val
      165      170      175
Tyr Thr Arg Arg Glu Pro Leu Gly Val Val Ala Gly Ile Gly Ala Trp
      180      185      190
Asn Tyr Pro Ile Gln Ile Ala Leu Trp Lys Ser Ala Pro Ala Leu Ala
      195      200      205
Ala Gly Asn Ala Met Ile Phe Lys Pro Ser Glu Val Thr Pro Leu Thr
      210      215      220
Ala Leu Lys Leu Ala Glu Ile Tyr Thr Glu Ala Gly Leu Pro Asp Gly
      225      230      235      240
Val Phe Asn Val Leu Pro Gly Val Gly Ala Glu Thr Gly Gln Tyr Leu
      245      250      255
Thr Glu His Pro Gly Ile Ala Lys Val Ser Phe Thr Gly Gly Val Ala
      260      265      270

```


Ser Gly Lys Lys Val Met Ala Asn Ser Ala Ala Ser Ser Leu Lys Glu
 275 280 285
 Val Thr Met Glu Leu Gly Gly Lys Ser Pro Leu Ile Val Phe Asp Asp
 290 295 300
 Ala Asp Leu Asp Leu Ala Ala Asp Ile Ala Met Met Ala Asn Phe Phe
 305 310 315 320
 Ser Ser Gly Gln Val Cys Thr Asn Gly Thr Arg Val Phe Val Pro Ala
 325 330 335
 Lys Phe Lys Ala Ala Phe Glu Gln Lys Ile Val Glu Arg Val Gly Arg
 340 345 350
 Ile Arg Ala Gly Asp Leu Phe Asp Glu Ser Thr Asn Phe Gly Pro Met
 355 360 365
 Val Ser Phe Pro His Arg Asp Ser Val Leu Arg Tyr Ile Thr Lys Gly
 370 375 380
 Lys Glu Glu Gly Ala Arg Val Leu Cys Gly Gly Asp Val Leu Lys Gly
 385 390 395 400
 Asp Gly Phe Asp Asn Gly Ala Trp Val Ala Pro Thr Val Phe Thr Asp
 405 410 415
 Cys Thr Asp Glu Met Thr Ile Val Arg Glu Glu Ile Phe Gly Pro Val
 420 425 430
 Met Ser Ile Leu Thr Tyr Asp Thr Asp Glu Glu Ala Ile Arg Arg Ala
 435 440 445
 Asn Asp Thr Asp Tyr Gly Leu Ala Ala Gly Ile Val Thr Ala Asn Leu
 450 455 460
 Asn Arg Ala His Gly Ala Ile His Gln Leu Glu Ala Gly Ile Cys Trp
 465 470 475 480
 Ile Asn Thr Trp Gly Glu Ser Ala Ala Glu Met Pro Val Gly Gly Tyr
 485 490 495
 Lys His Ser Gly Ile Gly Arg Glu Asn Gly Val Met Thr Leu Gln Ser
 500 505 510
 Tyr Thr Gln Val Lys Ser Ile Gln Val Glu Met Gly Lys Phe Gln Ser
 515 520 525
 Ile Phe
 530

<210> 8210

<211> 240

<212> PRT

<213> Enterobacter cloacae

<400> 8210

Gly His Gln Ala Ala Pro Ser Phe Asn Ala Thr Ser Cys Leu Asn Arg
 1 5 10 15
 Arg Asn Ser Thr Ser Val Thr Ser Lys Ile Ala Pro Ile Ile Ala Asn
 20 25 30
 Thr Asn Pro Leu Leu Leu Ala Asp Ala Thr Gly Val Ile Ile Ala Pro
 35 40 45
 Ile Pro Pro Arg Ile Ala Ala Pro Ile Ala Ser Pro Val Thr Phe Cys
 50 55 60
 Ala Val His Arg Pro Leu Met Arg Pro Ser Ile Pro Ser Gly Val Trp
 65 70 75 80
 Val Trp Ile Arg Val Tyr Cys Lys Ser Glu Leu Thr Ala Leu Ser Gln
 85 90 95
 Pro Lys Ile Thr Arg His Ile Thr Pro Ser Ala His Thr Gly Ile Arg
 100 105 110
 Leu Lys Lys Pro Ile Ala Ile Asn Glu Ala Ser Val Ala Thr Ser Met
 115 120 125
 Ile Ser Pro Gly Leu Ala Leu Cys Ala Arg Leu Pro Leu Val Ser Ala
 130 135 140
 Pro His Ala Ala Pro Ser Gly Met Ala Ala Tyr Ser Thr Pro Ile Ser
 145 150 155 160

Glu	Ala	Leu	Ile	Cys	His	Ser	Pro	Ala	Ser	Ala	Gly	Tyr	Ser	Thr	Arg
				165					170					175	
Thr	Ala	Leu	Ala	Ile	Val	Ser	Arg	Pro	Pro	Ser	Ser	Ala	Met	Pro	Pro
			180					185					190		
Ile	Asn	Gly	Leu	Leu	Asn	Arg	Lys	Arg	Ile	Ala	Ala	Ile	Arg	Asp	Phe
		195					200					205			
Ser	Gly	Cys	Ser	Arg	Gly	Cys	Gly	Gly	Gly	Gly	Arg	Ser	Gly	Arg	Arg
	210					215					220				
Ser	Ser	Val	Arg	Val	Val	Ile	Lys	Val	Pro	Ala	Ala	Ala	Arg	Pro	
225					230					235					240

<210> 8211

<211> 326

<212> PRT

<213> Enterobacter cloacae

<400> 8211

Arg	His	Arg	Ala	Leu	Gly	Ile	Asn	Pro	Gly	Gly	Ala	Val	Arg	Cys	Ser
1				5					10					15	
Ile	Thr	Ala	Gly	Arg	Arg	Ser	Leu	Arg	Pro	Ala	Ala	Val	Tyr	Ala	Leu
		20						25					30		
Ser	Thr	Ala	Gly	Gly	Arg	Gly	Asp	Arg	Gln	Pro	Arg	Arg	Asp	Leu	Pro
		35					40					45			
His	Arg	Leu	Ala	Arg	Ser	Gly	Val	Thr	Gln	Glu	Met	Thr	Asp	Leu	Thr
		50				55					60				
Thr	Arg	Leu	Arg	Gly	Glu	Asn	Leu	Thr	Leu	Gly	Tyr	Gly	Lys	Lys	Ile
65					70					75					80
Ile	Ala	Arg	Asp	Leu	Ser	Val	Ala	Ile	Pro	Asp	Gly	His	Phe	Thr	Ala
			85						90					95	
Ile	Ile	Gly	Pro	Asn	Gly	Cys	Gly	Lys	Ser	Thr	Leu	Leu	Arg	Thr	Leu
			100					105					110		
Ser	Arg	Leu	Met	Ser	Pro	Val	Glu	Gly	Ser	Val	Phe	Leu	Asp	Gly	Glu
		115					120					125			
Gln	Ile	Gln	Arg	Phe	Ala	Ser	Lys	Glu	Val	Ala	Arg	Arg	Ile	Gly	Leu
		130				135					140				
Leu	Ala	Gln	Asn	Ala	Thr	Thr	Pro	Gly	Asp	Ile	Thr	Val	Gln	Glu	Leu
145				150					155						160
Val	Ser	Arg	Gly	Arg	Tyr	Pro	His	Gln	Pro	Leu	Phe	Thr	Arg	Trp	Arg
			165						170					175	
Lys	Glu	Asp	Asp	Glu	Ala	Val	Lys	Arg	Ala	Met	Gln	Ala	Thr	Gly	Ile
		180					185						190		
Thr	Glu	Leu	Ala	Gln	Gln	Ser	Val	Asp	Thr	Leu	Ser	Gly	Gly	Gln	Arg
		195				200						205			
Gln	Arg	Ala	Trp	Ile	Ala	Met	Val	Leu	Ala	Gln	Glu	Thr	Ser	Ile	Met
		210				215					220				
Leu	Leu	Asp	Glu	Pro	Thr	Thr	Trp	Leu	Asp	Ile	Ser	His	Gln	Ile	Asp
225					230				235						240
Leu	Leu	Glu	Leu	Leu	Ser	Glu	Leu	Asn	Arg	Thr	Gln	Gly	Tyr	Thr	Leu
			245					250						255	
Ala	Ala	Val	Leu	His	Asp	Leu	Asn	Gln	Ala	Cys	Arg	Tyr	Ala	Thr	His
			260				265						270		
Leu	Ile	Ala	Leu	Arg	Asp	Gly	Glu	Ile	Val	Ala	Gln	Gly	Ala	Pro	Lys
		275					280					285			
Glu	Ile	Val	Thr	Pro	Glu	Leu	Ile	Ala	Arg	Ile	Tyr	Gly	Met	Arg	Cys
		290				295					300				
Met	Ile	Ile	Asp	Asp	Pro	Val	Ala	Gly	Thr	Pro	Leu	Val	Val	Pro	Leu
305					310					315					320
Gly	Lys	Arg	Ala	Val											
				325											

<210> 8212

<211> 109
 <212> PRT
 <213> Enterobacter cloacae

<400> 8212

Thr	Pro	Asp	Ala	Arg	Ala	Arg	Ser	Leu	Pro	Ala	Pro	Pro	Gly	Arg	Gly
1				5				10					15		
Arg	Trp	Pro	Leu	Ser	Pro	Pro	Ser	Ser	Gly	Phe	Pro	Ala	Ala	Arg	Tyr
		20					25					30			
Pro	Ala	Gly	Arg	Gly	Thr	Pro	Pro	Leu	His	Pro	Ala	Arg	Ala	Gly	Gly
	35					40					45				
Pro	Gln	Cys	Pro	Ala	Pro	Ala	Cys	Arg	Arg	Gly	Asn	Ser	Arg	Thr	Gly
	50					55				60					
Asn	Thr	Ala	Pro	Ala	Ala	Ala	Tyr	Ala	Thr	Cys	Ser	Asp	Asp	Val	
65				70				75						80	
Arg	Ser	Pro	His	Arg	Asp	Pro	Arg	Thr	Ala	Ala	Ser	Gly	Arg	Leu	Ala
			85					90						95	
Ala	Ala	Thr	Glu	Cys	Arg	Arg	Trp	Thr	Ser	Ala	Gly				
			100					105							

<210> 8213
 <211> 755
 <212> PRT
 <213> Enterobacter cloacae

<400> 8213

Ile	Thr	Ile	Lys	Ala	Gly	Arg	Thr	Met	Asn	Lys	Lys	Ile	His	Ser	Leu
1			5					10					15		
Ala	Leu	Leu	Val	Asn	Leu	Gly	Ile	Tyr	Gly	Val	Ala	Leu	Pro	Ala	Met
		20					25					30			
Ala	Asp	Asp	Asn	Thr	Ala	Ser	Ala	Gln	His	Glu	Asp	Thr	Met	Val	Ile
	35					40					45				
Thr	Ala	Ala	Glu	Gln	Asn	Leu	Gln	Ala	Pro	Gly	Val	Ser	Thr	Ile	Thr
	50					55				60					
Ala	Asp	Glu	Ile	Arg	Lys	Asn	Pro	Pro	Ala	Arg	Asp	Val	Ala	Glu	Ile
65				70				75						80	
Ile	Arg	Thr	Met	Pro	Gly	Val	Asn	Leu	Thr	Gly	Asn	Ser	Thr	Ser	Gly
			85					90						95	
Gln	Arg	Gly	Asn	Asn	Arg	Gln	Ile	Asp	Ile	Arg	Gly	Met	Gly	Pro	Glu
		100					105					110			
Asn	Thr	Leu	Ile	Leu	Ile	Asp	Gly	Lys	Pro	Val	Thr	Ser	Arg	Asn	Ser
	115					120					125				
Ile	Arg	Leu	Gly	Trp	Arg	Gly	Glu	Arg	Asp	Thr	Arg	Gly	Asp	Thr	Gly
	130					135				140					
Trp	Val	Pro	Pro	Glu	Met	Ile	Glu	Arg	Ile	Glu	Val	Ile	Arg	Gly	Pro
145				150			155								160
Ala	Ala	Ala	Arg	Tyr	Gly	Asn	Gly	Ala	Ala	Gly	Gly	Val	Val	Asn	Ile
			165				170							175	
Ile	Thr	Lys	Lys	Phe	Asp	Asp	Gln	Trp	His	Gly	Ser	Trp	Asn	Thr	Tyr
		180					185						190		
Leu	Asn	Ala	Pro	Glu	His	Lys	Asp	Glu	Gly	Ser	Thr	Lys	Arg	Thr	Asn
	195					200						205			
Phe	Ser	Leu	Ser	Gly	Pro	Leu	Gly	Gly	Asp	Phe	Ser	Phe	Arg	Met	Tyr
	210					215				220					
Gly	Asn	Leu	Asp	Lys	Thr	Gln	Ala	Asp	Ala	Trp	Asp	Ile	Asn	Gln	Gly
225				230				235							240
His	Gln	Ser	Asp	Arg	Thr	Gly	Ala	Tyr	Ala	Asn	Thr	Leu	Pro	Ala	Gly
			245					250						255	
Arg	Glu	Gly	Val	Glu	Asn	Lys	Asp	Ile	Asn	Gly	Val	Val	Arg	Trp	Asp
		260					265						270		
Phe	Ala	Pro	Met	Gln	Ser	Leu	Glu	Phe	Glu	Ala	Gly	Tyr	Ser	Arg	Gln

Arg Phe

<210> 8214
 <211> 254
 <212> PRT
 <213> Enterobacter cloacae

<400> 8214

```

Cys Leu Leu Pro Leu Pro Leu Gly Glu Gly Trp Gly Glu Gly Ile Arg
1      5      10
Pro His Asn Thr Glu Gly Lys Thr Met His Thr Thr His Ser Thr Phe
20
Ser Leu Ala Gly His Thr Leu His Arg Ile Thr Phe Asp Pro Thr Thr
35      40      45
Phe Thr Asp Ala Asp Leu Leu Trp Leu Pro His His Ala Gln Leu Ala
50      55      60
Asn Ala Gly Arg Lys Arg Lys Ala Asp His Leu Ala Gly Arg Ile Ala
65      70      75      80
Ala Ala His Ala Leu Pro Asp Tyr Thr Met Pro Ala Ile Gly Pro Ser
85      90      95
Gly Glu Pro Leu Trp Pro Gln Gly Ile Ser Gly Ser Ile Thr His Ser
100      105      110
Gly Thr Gln Ala Ile Ala Val Val Thr Gln Tyr Pro Ala Leu Ile Gly
115      120      125
Ile Asp Cys Glu Thr Ile Leu Ser Glu Asn Glu Ala Arg Glu Ile Lys
130      135      140
Asp Gly Ile Ile Asp Thr Gln Glu Glu Pro Val Leu Ser Arg Leu Gly
145      150      155      160
Tyr Pro Phe Ala Leu Ala Leu Thr Leu Val Phe Ser Ala Lys Glu Ser
165      170      175
Leu Phe Lys Ala Leu Phe Pro Gln Val Gln Ala Trp Met Gly Phe Asp
180      185      190
Cys Ala Arg Val Thr Met Leu Asp Asp Lys Thr Leu Thr Leu Ala Leu
195      200      205
Thr Cys Gln Leu Ala Asp Phe Gln Glu Gly Thr Ala Phe Pro Leu His
210      215      220
Trp Gln Gln His Gly Glu Gln Val Ile Thr Leu Leu Ser His Ala Pro
225      230      235      240
Gly Asp Glu Pro Ser Arg Trp Ser Pro Gln Thr Ser Arg
245      250

```

<210> 8215
 <211> 574
 <212> PRT
 <213> Enterobacter cloacae

<400> 8215

```

Ser Pro Ser Arg Leu Arg Trp Val Asn Ser Ser Pro Tyr Phe Asn Arg
1      5      10      15
Glu Val Tyr Leu Gln Phe Asp Tyr Ile Ile Ile Gly Ala Gly Ser Ala
20      25      30
Gly Asn Val Leu Ala Thr Arg Leu Thr Glu Asp Pro Asn Thr Thr Val
35      40      45
Leu Leu Leu Glu Ala Gly Gly Pro Asp Tyr Arg Phe Asp Phe Arg Thr
50      55      60
Gln Met Pro Ala Ala Leu Ala Phe Pro Leu Gln Gly Lys Arg Tyr Asn
65      70      75      80
Trp Ala Tyr Glu Thr Glu Pro Glu Pro Phe Met Asn Asn Arg Arg Met
85      90      95
Glu Cys Gly Arg Gly Lys Gly Leu Gly Gly Ser Ser Leu Ile Asn Gly
100      105      110
Met Cys Tyr Val Arg Gly Asn Ala Met Asp Leu Asp Asn Trp Ala Lys

```

```
<210> 8216
<211> 145
<212> PRT
```

<213> Enterobacter cloacae

<400> 8216

```

Ser Thr Phe Glu Val Val Met Lys Lys Ile Ala Cys Leu Ser Ala Leu
1          5          10          15
Ala Ala Val Leu Ala Val Ser Ala Gly Thr Ala Val Ala Ala Thr Ser
20          25          30
Thr Val Thr Gly Gly Tyr Ala Gln Ser Asp Met Gln Gly Val Met Asn
35          40          45
Lys Thr Asn Gly Phe Asn Leu Lys Tyr Arg Tyr Glu Gln Asp Asn Asn
50          55          60
Pro Leu Gly Val Ile Gly Ser Phe Thr Tyr Thr Glu Lys Asp Arg Thr
65          70          75          80
Glu Asn Gly Ser Tyr Asn Lys Gly Gln Tyr Tyr Gly Ile Thr Ala Gly
85          90          95
Pro Ala Tyr Arg Leu Asn Asp Trp Ala Ser Ile Tyr Gly Val Val Gly
100          105          110
Val Gly Tyr Gly Lys Phe Gln Gln Thr Glu Asn Gln Gly Leu Asn Arg
115          120          125
Thr Ala Ser Asn Ser Asp Tyr Gly Phe Ser Tyr Gly Ala Gly Met Gln
130          135          140
Phe
145

```

<210> 8217

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 8217

```

Ala Asp Pro Ile Leu Asn Leu Met Glu Ser Thr Met Leu Asn Gln Leu
1          5          10          15
Glu Ser Leu Thr Glu Arg Val Gly Gly Ser Asn Thr Leu Val Asp Arg
20          25          30
Trp Leu His Val Arg Lys His Leu Leu Val Ala Tyr Tyr Asn Leu Val
35          40          45
Gly Leu Lys Pro Gly Lys Glu Ser Phe Met Arg Leu Asn Glu Lys Ala
50          55          60
Leu Asp Asp Phe Cys Gln Ser Leu Val Asp Tyr Leu Ser Asp Gly His
65          70          75          80
Phe Asn Leu Tyr Glu Arg Ile Ile Arg Glu Met Glu Gly Thr Thr Pro
85          90          95
Tyr Leu Ala Ala Ser Lys Leu Cys Pro Leu Leu Glu Ala Asn Thr Gln
100          105          110
Arg Ile Met Asp Tyr Tyr Asp Ser Ala Leu Glu Asn Ala Ile Asp His
115          120          125
Asp Asn Tyr Leu Glu Phe Gln Gln Ala Leu Ser Asp Leu Gly Glu Ala
130          135          140
Leu Glu Glu Arg Phe Thr Leu Glu Asp Lys Leu Ile Ala Leu Val Leu
145          150          155          160
Asp Asn Asn Leu Asn Ile Ser Thr Ser Asp Asn Val Ala Arg Pro Ala
165          170          175

```

<210> 8218

<211> 633

<212> PRT

<213> Enterobacter cloacae

<400> 8218

Ala	Met	Ser	Thr	Ala	Lys	Leu	Thr	Arg	Arg	Glu	Gln	Arg	Glu	His	Ala
1				5					10					15	
Gln	Arg	Phe	Ile	Asp	Thr	Leu	Glu	Gly	Thr	Ala	Phe	Pro	Asn	Ser	Lys
		20						25					30		
Arg	Ile	Tyr	Ile	Ser	Gly	Ser	Gln	Ala	Asp	Ile	Arg	Val	Pro	Met	Arg
		35					40					45			
Glu	Ile	Gln	Leu	Ser	Pro	Thr	Leu	Ile	Gly	Gly	Ser	Lys	Asp	Asn	Pro
	50					55					60				
Gln	Phe	Glu	Asp	Asn	Glu	Ala	Val	Pro	Val	Tyr	Asp	Thr	Ser	Gly	Pro
65					70					75					80
Tyr	Gly	Asp	Pro	Asp	Val	Ala	Ile	Asn	Val	Gln	Gln	Gly	Leu	Ala	Lys
				85					90					95	
Leu	Arg	Gln	Pro	Trp	Ile	Glu	Ala	Arg	Asn	Asp	Cys	Glu	Glu	Leu	Ser
			100					105					110		
Val	Arg	Ser	Ser	Ala	Tyr	Thr	Lys	Glu	Arg	Leu	Ala	Asp	Asp	Gly	Leu
		115					120					125			
Asp	Ala	Leu	Arg	Phe	Thr	Gly	Leu	Leu	Thr	Pro	Lys	Arg	Ala	Lys	Ala
	130					135						140			
Gly	Lys	Cys	Val	Thr	Gln	Leu	His	Tyr	Ala	Arg	Gln	Gly	Ile	Val	Thr
145					150					155					160
Pro	Glu	Met	Glu	Phe	Ile	Ala	Ile	Arg	Glu	Asn	Met	Gly	Arg	Glu	Arg
				165					170					175	
Ile	Arg	Ser	Glu	Val	Leu	Arg	His	Gln	His	Pro	Gly	Glu	Gly	Phe	Gly
			180					185					190		
Ala	Arg	Leu	Pro	Glu	Asn	Ile	Thr	Pro	Glu	Phe	Val	Arg	Asp	Glu	Val
		195					200					205			
Ala	Ala	Gly	Arg	Ala	Ile	Ile	Pro	Ala	Asn	Ile	Asn	His	Pro	Glu	Ser
	210					215					220				
Glu	Pro	Met	Ile	Ile	Gly	Arg	Asn	Phe	Leu	Val	Lys	Val	Asn	Ala	Asn
225					230					235					240
Ile	Gly	Asn	Ser	Ala	Val	Thr	Ser	Ser	Ile	Glu	Glu	Glu	Val	Glu	Lys
				245					250					255	
Leu	Val	Trp	Ser	Thr	Arg	Trp	Gly	Ala	Asp	Thr	Val	Met	Asp	Leu	Ser
		260					265						270		
Thr	Gly	Arg	Tyr	Ile	His	Glu	Thr	Arg	Glu	Trp	Ile	Leu	Arg	Asn	Ser
		275					280					285			
Pro	Val	Pro	Ile	Gly	Thr	Val	Pro	Ile	Tyr	Gln	Ala	Leu	Glu	Lys	Val
	290					295					300				
Asn	Gly	Ile	Ala	Glu	Asn	Leu	Thr	Trp	Glu	Ala	Phe	Arg	Asp	Thr	Leu
305					310					315					320
Leu	Glu	Gln	Ala	Glu	Gln	Gly	Val	Asp	Tyr	Phe	Thr	Ile	His	Ala	Gly
			325						330					335	
Val	Leu	Leu	Arg	Tyr	Val	Pro	Met	Thr	Ala	Lys	Arg	Leu	Thr	Gly	Ile
			340					345					350		
Val	Ser	Arg	Gly	Gly	Ser	Ile	Met	Ala	Lys	Trp	Cys	Leu	Ser	His	His
		355					360					365			
Gln	Glu	Asn	Phe	Leu	Tyr	Glu	His	Phe	Arg	Glu	Ile	Cys	Glu	Ile	Cys
	370					375					380				
Ala	Ala	Tyr	Asp	Val	Ser	Leu	Ser	Leu	Gly	Asp	Gly	Leu	Arg	Pro	Gly
385					390					395					400
Ser	Ile	Arg	Asp	Ala	Asn	Asp	Glu	Ala	Gln	Phe	Ala	Glu	Leu	His	Thr
				405					410					415	
Leu	Gly	Glu	Leu	Thr	Lys	Ile	Ala	Trp	Glu	Tyr	Asp	Val	Gln	Val	Met
			420					425					430		
Ile	Glu	Gly	Pro	Gly	His	Val	Pro	Met	Gln	Met	Ile	Arg	Arg	Asn	Met
	435						440					445			
Thr	Glu	Glu	Leu	Glu	His	Cys	His	Glu	Ala	Pro	Phe	Tyr	Thr	Leu	Gly
	450					455					460				
Pro	Leu	Thr	Thr	Asp	Ile	Ala	Pro	Gly	Tyr	Asp	His	Phe	Thr	Ser	Gly
465					470					475					480
Ile	Gly	Ala	Ala	Met	Ile	Gly	Trp	Phe	Gly	Cys	Ala	Met	Leu	Cys	Tyr

				485					490					495		
Val	Thr	Pro	Lys	Glu	His	Leu	Gly	Leu	Pro	Asn	Lys	Glu	Asp	Val	Lys	
			500					505					510			
Gln	Gly	Leu	Ile	Thr	Tyr	Lys	Ile	Ala	Ala	His	Ala	Ala	Asp	Leu	Ala	
		515					520					525				
Lys	Gly	His	Pro	Gly	Ala	Gln	Ile	Arg	Asp	Asn	Ala	Met	Ser	Lys	Ala	
	530					535					540					
Arg	Phe	Glu	Phe	Arg	Trp	Glu	Asp	Gln	Phe	Asn	Leu	Ala	Leu	Asp	Pro	
545					550					555					560	
Phe	Thr	Ala	Arg	Ala	Tyr	His	Asp	Glu	Thr	Leu	Pro	Gln	Glu	Ser	Gly	
				565					570						575	
Lys	Val	Ala	His	Phe	Cys	Ser	Met	Cys	Gly	Pro	Lys	Phe	Cys	Ser	Met	
			580					585					590			
Lys	Ile	Ser	Gln	Glu	Val	Arg	Asp	Tyr	Ala	Ala	Ala	Gln	Thr	Ile	Glu	
		595					600					605				
Val	Gly	Met	Ala	Asp	Met	Ser	Glu	Thr	Phe	Arg	Ala	Lys	Gly	Gly	Glu	
	610					615					620					
Ile	Tyr	Leu	Lys	Lys	Glu	Glu	Ala									
625						630										

<210> 8219

<211> 315

<212> PRT

<213> Enterobacter cloacae

<400> 8219

Arg	Ser	Trp	Arg	Pro	Thr	Leu	Ser	Ala	Leu	Pro	Ile	Thr	Pro	Pro	Leu	
1				5					10					15		
Pro	Ser	Ala	Gly	Ser	Ala	Leu	Asn	Ala	Arg	Pro	Pro	Cys	Trp	Lys	Pro	
		20						25					30			
Ala	Ser	Ala	Val	Ser	Pro	Ser	Ser	Ala	Leu	Ser	Pro	Arg	Pro	Gln	Thr	
		35					40					45				
Gly	Arg	Pro	Pro	Pro	His	Gly	Phe	Tyr	Asn	Trp	Gln	Glu	Gln	Ala	Met	
	50					55					60					
Lys	Asp	Arg	Asp	Phe	Met	Arg	Tyr	Ser	Arg	Gln	Ile	Leu	Leu	Glu	Asp	
65				70					75						80	
Ile	Ala	Ile	Asp	Gly	Gln	Gln	Lys	Leu	Leu	Ala	Ser	Arg	Val	Leu	Ile	
			85						90					95		
Val	Gly	Leu	Gly	Gly	Leu	Gly	Ala	Pro	Ala	Ala	Leu	Tyr	Leu	Ala	Gly	
		100						105					110			
Ala	Gly	Val	Gly	Thr	Leu	Val	Leu	Ala	Asp	Asp	Asp	Glu	Val	His	Leu	
		115					120					125				
Ser	Asn	Leu	Gln	Arg	Gln	Ile	Leu	Phe	Thr	Thr	Glu	Asp	Val	Asn	Gln	
	130					135					140					
Pro	Lys	Ala	His	Val	Thr	Arg	Gln	Arg	Leu	Asn	Gln	Leu	Asn	Pro	Asp	
145				150					155						160	
Ile	Glu	Leu	Val	Ala	Leu	Gln	Thr	Arg	Leu	Ser	Gly	Glu	Asp	Leu	Gln	
			165						170					175		
Arg	Glu	Val	Ala	Leu	Ala	Asp	Val	Val	Leu	Asp	Cys	Thr	Asp	Asn	Met	
		180						185					190			
Ala	Thr	Arg	Gln	Ala	Ile	Asn	Ala	Val	Cys	Val	Ala	Gln	Asn	Thr	Pro	
		195					200					205				
Leu	Ile	Thr	Ala	Ser	Ala	Val	Gly	Phe	Gly	Gly	Gln	Ile	Met	Val	Leu	
	210					215					220					
Thr	Pro	Pro	Trp	Ala	Gln	Gly	Cys	Tyr	Arg	Cys	Leu	Trp	Pro	Asp	Glu	
225				230					235						240	
Ala	Glu	Pro	Glu	Arg	Asn	Cys	Arg	Thr	Ala	Gly	Ile	Leu	Gly	Pro	Val	
			245						250					255		
Val	Gly	Val	Met	Gly	Thr	Leu	Gln	Ala	Leu	Glu	Ala	Ile	Lys	Leu	Leu	
		260					265					270				
Ser	Gly	Met	Glu	Thr	Glu	Arg	Asn	Thr	Leu	Arg	Leu	Phe	Asp	Ala	Arg	

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<210> 8220
<211> 119
<212> PRT
<213> Enterobacter cloacae
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```
<210> 8221
<211> 79
<212> PRT
<213> Enterobacter cloacae
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```
<210> 8222
<211> 600
<212> PRT
<213> Enterobacter cloacae
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<400> 8222															
Glu	Arg	Gln	Pro	Ala	Gly	Asp	Thr	Gly	Asp	Glu	Ala	Arg	Gly	Phe	Ala
1				5					10					15	
Ser	Ala	Gln	Arg	Cys	His	Thr	Cys	Ala	Val	Thr	Gly	Gly	Arg	Arg	Asp
			20					25					30		
Ala	Leu	Thr	Glu	Tyr	Leu	Arg	Cys	Glu	Asn	Gly	Arg	Gly	Ser	Asn	Phe
		35					40					45			
Arg	Cys	Ala	Thr	Gly	Ala	Gly	Ser	Ala	Arg	His	Pro	Leu	Ala	Glu	Ala
	50					55					60				
Gly	Asn	Ser	Ser	Gly	Arg	Pro	Leu	Ala	Val	Ala	Arg	Ser	Asp	Arg	Asn

65					70					75					80
Pro	Glu	Ser	Gly	Arg 85	Glu	Ala	Gly	Ala	Ala 90	Gly	Ile	Tyr	Arg	Pro 95	Ala
Leu	Leu	Arg	Cys 100	Arg	Pro	Arg	Ala	Val 105	Gln	Ala	Ser	Gly	Arg	Gly	Arg
Leu	Arg	Gly 115	Arg	Asn	Ala	Val	Arg	Gly 120	Thr	His	Trp	Leu	Gln	Pro	Gly
Thr	Gly 130	Asp	Pro	Arg	Asp	Ala 135	Gly	Asp	His	His 140	Arg	Ala	Gly	Asp	Arg
Ala 145	Arg	Gly	Gly	Gly	Cys 150	Gly	His	Arg	Arg	Thr 155	Gln	Ser	Arg	Arg	Ala 160
Gly	Ala	Gly	Asp 165	Gly	Gly	Arg	Cys	Gly 170	Ala	Gly	Gln	Tyr	Arg	Asp 175	Cys
Gly	Gly	Arg	Arg 180	Pro	Gly	Asp	Asp	Gly 185	Ala	Cys	Val	Pro	Pro 190	Cys	Gly
Gly	Val 195	Arg	Ser	Ala	Gly	Thr	Pro 200	Val	Arg	Pro	Arg	Leu 205	Ala	Leu	Arg
Ser	Gly 210	Ala	Gly	His	Gln	Pro 215	Ala	Asp	Arg	Phe	Ser 220	Gly	Gly	Ala	Leu
Met 225	Ala	Thr	Phe	Thr	Asp 230	Arg	Trp	Arg	Gln	Leu 235	Asn	Trp	Asp	Asp	Ile 240
Ala	Leu	Arg	Ile	Asn 245	Ser	Lys	Thr	Ser	Ala 250	Asp	Val	Glu	Arg	Ala 255	Leu
Thr	Ala	Lys	His 260	Leu	Thr	Arg	Glu	Asp 265	Leu	Met	Ala	Leu	Leu 270	Ser	Pro
Ala	Ala 275	Gly	Ala	Tyr	Leu	Glu	Pro 280	Met	Ala	Gln	Arg	Ala 285	Gln	Arg	Leu
Thr	Arg 290	Gln	Arg	Phe	Gly	Asn 295	Thr	Val	Ser	Phe	Tyr 300	Val	Pro	Leu	Tyr
Leu 305	Ser	Asn	Leu	Cys 310	Ala	Asn	Asp	Cys	Thr	Tyr 315	Cys	Gly	Phe	Ser	Met 320
Ser	Asn	Arg	Ile	Lys 325	Arg	Lys	Thr	Leu	Asp 330	Glu	His	Glu	Ile	Ala 335	Arg
Glu	Cys	Ala 340	Ala	Ile	Arg	Glu	Met	Gly 345	Phe	Glu	His	Leu	Leu 350	Leu	Val
Thr	Gly 355	Glu	His	Gln	Gly	Lys	Val 360	Gly	Met	Asp	Tyr	Phe 365	Arg	Gln	His
Leu	Pro 370	Ala	Ile	Arg	Arg	Glu	Phe 375	Ala	Ser	Leu	Gln	Met	Glu	Val	Gln
Pro 385	Leu	Ser	Gln	Glu	Glu 390	Tyr	Ala	Glu	Leu	Lys 395	Thr	Leu	Gly	Leu	Asp 400
Gly	Val	Met	Val	Tyr 405	Gln	Glu	Thr	Tyr	His 410	Glu	Ala	Thr	Tyr	Ala 415	Arg
His	His	Leu	Lys 420	Gly	Lys	Lys	Gln	Asp 425	Phe	Ile	Phe	Arg	Leu 430	Glu	Thr
Pro	Asp 435	Arg	Leu	Gly	Arg	Ala	Gly 440	Ile	Asp	Lys	Ile	Gly 445	Leu	Gly	Ala
Leu	Ile 450	Gly	Leu	Ser	Asp	Ser 455	Trp	Arg	Val	Asp	Cys	Tyr	Met	Val	Ala
Glu 465	His	Leu	Leu	Trp	Leu 470	Gln	Gln	Arg	Tyr	Trp 475	Gln	Ser	Arg	Tyr	Ser
Ile	Ser	Phe	Pro	Arg 485	Leu	Arg	Pro	Cys	Thr 490	Gly	Gly	Val	Glu	Pro 495	Ala
Ser	Leu	Met	Asp 500	Glu	Arg	Gln	Leu	Val 505	Gln	Thr	Leu	Cys	Ala 510	Phe	Arg
Leu	Phe 515	Ala	Pro	Glu	Val	Glu	Leu 520	Ser	Leu	Ser	Thr	Arg 525	Glu	Ser	Pro
Ala	Phe 530	Arg	Asp	Arg	Ala	Ile 535	Pro	Leu	Ala	Ile	Asn 540	Asn	Val	Ser	Ala
Phe 545	Ser	Lys	Thr	Gln	Pro 550	Gly	Gly	Tyr	Ala	Asp 555	Asp	His	Pro	Glu	Leu 560

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<210> 8223
<211> 552
<212> PRT
<213> Enterobacter cloacae
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Ile	Ile	Ser	Ser	Val	Ile	Ala	Phe	Cys	Ile	Ile	Tyr	Tyr	Gln	Gln	Pro
1				5					10					15	
Asp	Ser	Asp	Tyr	Ala	Glu	Gly	Ile	Asp	Arg	Arg	Asn	Ala	Ser	Thr	Ile
		20						25				30			
Trp	Ile	Asp	Val	Gln	Leu	Met	Ala	Leu	His	Ser	Lys	Lys	Leu	Ser	Phe
		35					40					45			
Thr	Arg	Pro	Ile	Met	Val	Ser	Phe	Ala	Gly	Ile	Leu	Leu	Ser	Phe	Ala
	50					55					60				
Leu	Ile	Ala	Ile	Leu	Val	Ile	Leu	Ser	Gln	Arg	Lys	Asp	Phe	Leu	Glu
65					70					75					80
Asp	Tyr	His	Lys	Ile	Asn	Gly	Asn	Phe	Thr	His	Asn	Leu	Ala	Val	Asn
				85					90					95	
Tyr	Thr	Glu	Ser	Ile	Leu	Arg	Glu	Asn	Asp	Tyr	Ile	Leu	Gly	Arg	Ala
			100					105					110		
Ala	Met	Tyr	Phe	Ala	Arg	Asn	Asp	Arg	Val	Asn	Gln	Thr	Ile	Asn	Ile
		115					120					125			
Asp	Pro	Thr	His	Gly	Leu	Gln	Met	Leu	Met	His	Leu	Gln	Asn	Leu	Met
	130					135					140				
Pro	Thr	Val	Ser	Ser	Ile	Ser	Leu	Ala	Asp	Thr	Val	Gly	Arg	His	Leu
145					150					155					160
Arg	Ala	Pro	Glu	Val	Leu	Pro	Thr	Glu	Lys	Gly	Lys	Ser	Phe	Asp	Ala
				165					170					175	
Arg	Thr	Arg	Pro	Trp	Phe	Ile	Gly	Gln	Ala	Glu	Ala	Ser	Asn	Phe	Pro
			180					185					190		
His	Tyr	Thr	Arg	Pro	Tyr	Leu	Asp	Tyr	Phe	Thr	Gln	His	Pro	Thr	Val
		195					200					205			
Thr	Leu	Tyr	Lys	Pro	Val	Ile	Ser	Pro	Glu	Gly	Arg	Leu	Lys	Gly	Thr
	210					215					220				
Leu	Ala	Phe	His	Leu	Asp	Leu	Thr	Ser	Met	Gly	Tyr	Thr	Leu	Arg	Gln
225					230					235					240
Met	Val	Ala	Pro	Val	Gln	Gly	Glu	Phe	Phe	Val	Val	Glu	Arg	Asp	Gly
				245					250					255	
Ala	Val	Val	Leu	His	Pro	Asp	Thr	Gly	Ala	Leu	Phe	Lys	Gln	Tyr	Val
			260					265					270		
Ser	Glu	Ala	Leu	Met	Asp	Lys	Met	Thr	Ser	Gly	Glu	Gly	His	Leu	Phe
		275					280					285			
Asp	Pro	Lys	Ser	Lys	Thr	Trp	Tyr	Tyr	Tyr	Tyr	Ser	Phe	Thr	Asn	Pro
	290					295					300				
Asp	Trp	Phe	Val	Ile	Tyr	Arg	Val	Ser	Asp	Ala	Thr	Leu	Thr	Val	Ile
305					310					315					320
Thr	Arg	His	Glu	Thr	Thr	Val	Val	Gly	Trp	Gly	Phe	Ala	Leu	Ala	Ala
				325					330					335	
Ile	Ile	Ile	Ile	Leu	Phe	Gly	Leu	Tyr	Leu	Arg	His	Ala	Ser	Arg	Ser
			340					345					350		
Val	Leu	Met	Asn	Ile	Ile										

Glu Arg Glu Leu Ala Tyr Val Arg Gln Ala Thr His Asp Ala Leu Thr
 385 390 395 400
 Gly Cys Lys Asn Arg Arg Ala Phe Asp Asn Asp Val Asp Glu Leu Leu
 405 410 415
 Thr Ala His Gln Pro Phe Val Leu Ala Leu Val Asp Ile Asp Asn Phe
 420 425 430
 Lys Ser Ile Asn Asp Thr Trp Gly His Leu Ser Gly Asp Ile Val Leu
 435 440 445
 Arg Asn Val Ala Arg Glu Gly Ile Gln Ile Met Gln Pro His His Val
 450 455 460
 Ser Val Tyr Arg Tyr Gly Gly Glu Glu Phe Gly Val Ile Phe Pro Ala
 465 470 475 480
 Glu Leu Met Asn Ser Ala His Ala Leu Leu Glu Ala Trp Arg Thr Ala
 485 490 495
 Val Glu Lys Arg Thr Trp Arg Glu Glu Asn Leu Arg Val Thr Phe Ser
 500 505 510
 Ala Gly Thr Gly Glu Trp His Phe Glu Pro Leu Glu Gln Phe Ile Gly
 515 520 525
 Ser Val Asp Glu Ala Leu Tyr Thr Ala Lys Gln Gln Gly Lys Asn Arg
 530 535 540
 Ile Val Ser Thr Ala Ser Arg
 545 550

<210> 8224

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 8224

Leu Ser Ile Asn Thr Cys Arg Ser Arg Leu Thr Met Lys Asn Ile Val
 1 5 10 15
 Leu Cys Cys Ala Ala Gly Met Ser Thr Ser Met Leu Val Gln Arg Met
 20 25 30
 Lys Asp Ala Ala Gln Lys Lys Gly Val Glu Val Thr Ile Lys Ala Val
 35 40 45
 Pro Val Ala Glu Phe Lys Asp Asn Ile Ala Thr Ala Asp Ile Val Leu
 50 55 60
 Leu Gly Pro Gln Val Lys Tyr Glu Gln Ala Lys Leu Gln Ala Gln Ala
 65 70 75 80
 Asp Pro Leu Gly Lys Lys Val Ala Val Ile Asp Met Met Asp Tyr Gly
 85 90 95
 Met Met Lys Gly Asp Ala Val Leu Glu Lys Ala Leu Lys Leu Leu Glu
 100 105 110
 Ser

<210> 8225

<211> 578

<212> PRT

<213> Enterobacter cloacae

<400> 8225

Thr Leu Ile Ser Thr Pro Gly Glu Asn Val Phe Val Lys Met Leu Ala
 1 5 10 15
 Leu Tyr Lys Asp Ala Ser Ser Gly Val Leu Asp Glu Phe Phe Thr Gly
 20 25 30
 Lys Ile His Leu Thr Leu Ser Val Ile Val Lys Ser Arg Gly Phe Thr
 35 40 45
 Met Gln Gln Arg Arg Pro Val Arg Arg Ala Leu Leu Ser Val Ser Asp
 50 55 60
 Lys Ala Gly Ile Val Glu Phe Ala Gln Ala Leu Ser Ala Arg Gly Val

65					70					75				80
Glu	Leu	Leu	Ser	Thr	Gly	Gly	Thr	Ala	Arg	Leu	Leu	Ala	Glu	Lys Gly
				85					90					95
Leu	Pro	Val	Thr	Glu	Val	Ser	Asp	Tyr	Thr	Gly	Phe	Pro	Glu	Met Met
			100					105					110	
Asp	Gly	Arg	Val	Lys	Thr	Leu	His	Pro	Lys	Val	His	Gly	Gly	Ile Leu
			115				120					125		
Gly	Arg	Arg	Gly	Gln	Asp	Asp	Ala	Ile	Met	Glu	Gln	His	Asp	Ile Ala
			130			135					140			
Pro	Ile	Asp	Met	Val	Val	Val	Asn	Leu	Tyr	Pro	Phe	Ala	Gln	Thr Val
145					150					155				160
Ala	Arg	Glu	Gly	Cys	Ser	Leu	Glu	Asp	Ala	Val	Glu	Asn	Ile	Asp Ile
				165				170						175
Gly	Gly	Pro	Thr	Met	Val	Arg	Ser	Ala	Ala	Lys	Asn	His	Lys	Asp Val
			180					185					190	
Ala	Ile	Val	Val	Lys	Ser	Ser	Asp	Tyr	Asn	Ala	Ile	Ile	Asn	Glu Met
			195				200					205		
Asp	Ala	Asn	Glu	Arg	Ser	Leu	Thr	Leu	Glu	Thr	Arg	Phe	Asp	Leu Ala
			210			215					220			
Ile	Lys	Ala	Phe	Glu	His	Thr	Ala	Ala	Tyr	Asp	Ser	Met	Ile	Ala Asn
225					230					235				240
Tyr	Phe	Gly	Ser	Leu	Val	Pro	Ala	Tyr	His	Gly	Glu	Ser	Lys	Asp Pro
				245					250					255
Ser	Gly	Arg	Phe	Pro	Arg	Thr	Leu	Asn	Leu	Asn	Phe	Ile	Lys	Lys Gln
			260					265					270	
Asp	Met	Arg	Tyr	Gly	Glu	Asn	Ser	His	Gln	Gln	Ala	Ala	Phe	Tyr Ile
			275				280					285		
Glu	Glu	Glu	Val	Lys	Glu	Ala	Ser	Val	Ala	Thr	Ala	Gln	Gln	Val Gln
			290			295					300			
Gly	Lys	Ala	Leu	Ser	Tyr	Asn	Asn	Ile	Ala	Asp	Thr	Asp	Ala	Ala Leu
305					310					315				320
Glu	Cys	Val	Lys	Glu	Phe	Ser	Glu	Pro	Ala	Cys	Val	Ile	Val	Lys His
				325					330					335
Ala	Asn	Pro	Cys	Gly	Val	Ala	Val	Ser	Thr	Ser	Ile	Leu	Asp	Ala Tyr
			340					345					350	
Asp	Arg	Ala	Tyr	Lys	Thr	Asp	Pro	Thr	Ser	Ala	Phe	Gly	Gly	Ile Ile
			355				360					365		
Ala	Phe	Asn	Arg	Glu	Leu	Asp	Ala	Glu	Thr	Ala	Gln	Ala	Ile	Ile Ser
			370			375					380			
Arg	Gln	Phe	Val	Glu	Val	Ile	Ile	Ala	Pro	Ser	Ala	Ser	Glu	Glu Ala
385					390					395				400
Leu	Lys	Ile	Thr	Ala	Ala	Lys	Gln	Asn	Val	Arg	Val	Leu	Val	Cys Gly
				405					410					415
Gln	Trp	Ala	Glu	Arg	Val	Pro	Gly	Leu	Asp	Phe	Lys	Arg	Val	Asn Gly
			420					425					430	
Gly	Leu	Leu	Val	Gln	Asp	Arg	Asp	Leu	Gly	Met	Val	Thr	Glu	Ala Asp
			435				440					445		
Leu	Arg	Val	Val	Thr	Lys	Arg	Gln	Pro	Thr	Glu	Gln	Glu	Leu	Arg Asp
			450			455					460			
Ala	Leu	Phe	Cys	Trp	Lys	Val	Ala	Lys	Phe	Val	Lys	Ser	Asn	Ala Ile
465					470					475				480
Val	Tyr	Ala	Lys	Glu	Asn	Met	Thr	Ile	Gly	Ile	Gly	Ala	Gly	Gln Met
				485					490					495
Ser	Arg	Val	Tyr	Ser	Ala	Lys	Ile	Ala	Gly	Ile	Lys	Ala	Gly	Asp Glu
			500				505						510	
Gly	Leu	Glu	Val	Lys	Gly	Ser	Ala	Met	Ala	Ser	Asp	Ala	Phe	Phe Pro
			515				520					525		
Phe	Arg	Asp	Gly	Ile	Asp	Ala	Ala	Ala	Val	Gly	Ile	Thr	Cys	Val
			530			535				540				
Ile	Gln	Pro	Gly	Gly	Ser	Ile	Arg	Asp	Asp	Glu	Val	Ile	Ala	Ala Ala
545					550					555				560

Asp Glu His Gly Ile Ala Met Ile Phe Thr Asp Met Arg His Phe Arg
 565 570 575
 His

<210> 8226

<211> 436

<212> PRT

<213> Enterobacter cloacae

<400> 8226

Phe Pro Glu Gln Lys Met Lys Val Leu Val Ile Gly Asn Gly Gly Arg
 1 5 10 15
 Glu His Ala Leu Ala Trp Lys Ala Ala Gln Ser Pro Gln Val Glu Thr
 20 25 30
 Val Phe Val Ala Pro Gly Asn Ala Gly Thr Ala Leu Glu Pro Ala Leu
 35 40 45
 Gln Asn Val Ala Ile Gly Val Thr Asp Ile Pro Ala Leu Leu Ser Phe
 50 55 60
 Ala Gln Thr Glu Asn Ile Asp Leu Thr Ile Val Gly Pro Glu Ala Pro
 65 70 75 80
 Leu Val Ile Gly Val Val Asp Ala Phe Arg Ala Ala Gly Leu Lys Ile
 85 90 95
 Phe Gly Pro Thr Glu Gly Ala Ala Gln Leu Glu Gly Ser Lys Ala Phe
 100 105 110
 Thr Lys Asp Phe Leu Ala Arg His Asn Ile Pro Thr Ala Glu Tyr Gln
 115 120 125
 Asn Phe Thr Glu Val Glu Pro Ala Leu Ala Trp Leu Arg Glu Lys Gly
 130 135 140
 Ala Pro Ile Val Ile Lys Ala Asp Gly Leu Ala Ala Gly Lys Gly Val
 145 150 155 160
 Ile Val Ala Met Thr Leu Glu Glu Ala Glu Ala Ala Val Gln Asp Met
 165 170 175
 Leu Ala Gly Asn Ala Phe Gly Asp Ala Gly His Arg Ile Val Ile Glu
 180 185 190
 Glu Phe Leu Asp Gly Glu Glu Ala Ser Phe Ile Val Met Val Asp Gly
 195 200 205
 Glu His Val Leu Pro Met Ala Thr Ser Gln Asp His Lys Arg Val Gly
 210 215 220
 Asn Gly Asp Thr Gly Pro Asn Thr Gly Gly Met Gly Ala Tyr Ser Pro
 225 230 235 240
 Ala Pro Val Val Thr Asp Glu Val His Gln Arg Thr Met Asp Arg Ile
 245 250 255
 Ile Trp Pro Thr Val Lys Gly Met Ala Ala Glu Gly Asn Thr Tyr Thr
 260 265 270
 Gly Phe Leu Tyr Ala Gly Leu Met Ile Asp Lys Gln Gly Asn Pro Lys
 275 280 285
 Val Ile Glu Phe Asn Cys Arg Phe Gly Asp Pro Glu Thr Gln Pro Ile
 290 295 300
 Met Leu Arg Met Lys Ser Asp Leu Val Asp Leu Cys Leu Ala Ala Cys
 305 310 315 320
 Glu Gly Lys Leu Asp Glu Lys Thr Ser Glu Trp Asp Glu Arg Ala Ser
 325 330 335
 Leu Gly Val Val Ile Ala Ala Gly Gly Tyr Pro Gly Ser Tyr Asn Thr
 340 345 350
 Gly Asp Glu Ile His Gly Leu Pro Leu Glu Glu Ile Asp Gly Ala Lys
 355 360 365
 Val Phe His Ala Gly Thr Lys Leu Ala Asp Asp Asp Arg Val Leu Thr
 370 375 380
 Asn Gly Gly Arg Val Leu Cys Ala Thr Ala Leu Gly Gln Thr Val Ala
 385 390 395 400

Glu Ala Gln Lys Arg Ala Tyr Ala Leu Met Ala Asp Ile His Trp Asn
 405 410 415
 Gly Ser Phe Ser Arg Gln Asp Ile Gly Tyr Arg Ala Ile Ala Arg Glu
 420 425 430
 Gln Gly Glu
 435

<210> 8227

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 8227

Ser Arg His Gly Gly His Val Gly Asn Leu Pro Arg Glu Arg Arg Arg
 1 5 10 15
 Asn Leu Pro Gln Lys Arg Gly Gly Ile Met Tyr Gln Pro Asp Phe Pro
 20 25 30
 Pro Val Pro Phe Arg Leu Gly Leu Tyr Pro Val Val Asp Ser Val Ala
 35 40 45
 Trp Ile Ala Arg Leu Leu Glu Ala Gly Val Arg Thr Ile Gln Leu Arg
 50 55 60
 Ile Lys Asp Lys Arg Asp Glu Glu Val Glu Ala Asp Val Ile Ala Ala
 65 70 75 80
 Ile Ala Leu Gly Arg Arg Tyr His Ala Arg Leu Phe Ile Asn Asp Tyr
 85 90 95
 Trp Arg Leu Ala Val Lys His Gln Ala Tyr Gly Val His Leu Gly Gln
 100 105 110
 Glu Asp Leu Glu Thr Thr Asp Leu Asn Ala Ile Arg Asp Val Gly Leu
 115 120 125
 Arg Leu Gly Val Ser Thr His Asp Asp Met Glu Ile Asp Val Ala Leu
 130 135 140
 Ala Ala Arg Pro Ser Tyr Ile Ala Leu Gly His Val Phe Pro Thr Gln
 145 150 155 160
 Thr Lys Gln Met Pro Ser Ala Pro Gln Gly Leu Thr Gln Leu Ala Ala
 165 170 175
 His Val Lys Arg Leu Ala Asp Tyr Pro Thr Val Ala Ile Gly Gly Ile
 180 185 190
 Ser Leu Glu Arg Ala Pro Ala Val Leu Glu Thr Gly Val Gly Ser Ile
 195 200 205
 Ala Val Val Ser Ala Ile Thr Gln Ala Ala Asp Trp Gln Ala Ala Thr
 210 215 220
 Ala Arg Leu Leu Gln Leu Ala Gly Ala Gly Asp Glu Arg Ser
 225 230 235

<210> 8228

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 8228

Ser Arg Glu Arg Arg Trp Arg Ser Ile Asn Arg Ser Cys Arg Ala Ser
 1 5 10 15
 Gly Gly Asn Ile Ser Arg Ser Met Lys Ala Thr Arg Ser Cys Cys Phe
 20 25 30
 Arg Leu Ser Gln Gly Ala Glu Met Leu Arg Ile Ala Asp Lys Val Phe
 35 40 45
 Asp Ser His Leu Phe Thr Gly Thr Gly Lys Phe Ala Ser Pro Gln Leu
 50 55 60
 Met Val Asp Ala Ile Arg Glu Ser Gly Ser Gln Leu Val Thr Leu Ala
 65 70 75 80
 Met Lys Arg Val Asp Leu Arg Gln His Asn Asp Ala Ile Leu Ala Pro


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<210> 8229
<211> 1389
<212> PRT
<213> Enterobacter cloacae
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Ile	Ala	Met	Lys	Trp	Phe	Lys	Arg	Asp	Ser	Asn	Arg	Tyr	Cys	Gly	Lys
1				5					10					15	
Tyr	Ser	Ile	Phe	Arg	Ser	Thr	Lys	Trp	Cys	Cys	Thr	Asn	Cys	Pro	Phe
			20					25					30		
Val	Gly	Gln	Met	Gly	Arg	Leu	Val	Ser	Glu	Leu	Arg	Asn	Pro	Met	Val
		35					40					45			
Tyr	Ser	Tyr	Thr	Glu	Lys	Lys	Arg	Ile	Arg	Lys	Asp	Phe	Gly	Lys	Arg
	50					55					60				
Pro	Gln	Val	Leu	Asp	Ile	Pro	Tyr	Leu	Leu	Ser	Ile	Gln	Leu	Asp	Ser
65				70						75				80	
Phe	Gln	Lys	Phe	Ile	Glu	Gln	Asp	Pro	Glu	Gly	Gln	Tyr	Gly	Leu	Glu
			85					90						95	
Ala	Ala	Phe	Arg	Ser	Val	Phe	Pro	Ile	Gln	Ser	Tyr	Ser	Gly	Asn	Ser
		100					105					110			
Glu	Leu	Gln	Tyr	Val	Ser	Tyr	Arg	Leu	Gly	Glu	Pro	Val	Phe	Asp	Val
		115					120					125			
Gln	Glu	Cys	Gln	Ile	Arg	Gly	Val	Thr	Tyr	Ser	Ala	Pro	Leu	Arg	Val
	130					135					140				
Lys	Leu	Arg	Leu	Val	Ile	Tyr	Glu	Arg	Glu	Ala	Pro	Glu	Gly	Thr	Val
145				150						155				160	
Lys	Asp	Ile	Lys	Glu	Gln	Glu	Val	Tyr	Met	Gly	Glu	Ile	Pro	Leu	Met
			165						170					175	
Thr	Asp	Asn	Gly	Thr	Phe	Val	Ile	Asn	Gly	Thr	Glu	Arg	Val	Ile	Val
		180						185					190		
Ser	Gln	Leu	His	Arg	Ser	Pro	Gly	Val	Phe	Phe	Asp	Ser	Asp	Lys	Gly
		195					200					205			
Lys	Thr	His	Ser	Ser	Gly	Lys	Val	Leu	Tyr	Asn	Ala	Arg	Ile	Ile	Pro

210	215	220
Tyr Arg Gly Ser Trp	Leu Asp Phe Glu Phe Asp	Pro Lys Asp Asn Leu
225	230	235
Phe Val Arg Ile Asp	Arg Arg Arg Lys Leu Pro	Ala Thr Ile Ile Leu
245	250	255
Arg Ala Leu Asn Tyr	Thr Thr Glu Gln Ile Leu	Asp Leu Phe Phe Glu
260	265	270
Lys Val Ile Phe Glu	Ile Arg Asp Asn Lys Leu	Gln Met Glu Leu Val
275	280	285
Pro Glu Arg Leu Arg	Gly Glu Thr Ala Ser Phe	Asp Ile Glu Ala Asp
290	295	300
Gly Lys Val Tyr Val	Glu Lys Gly Arg Arg Ile	Thr Ala Arg His Ile
305	310	315
Arg Gln Leu Glu Lys	Asp Asp Ile Lys His Ile	Glu Val Pro Val Glu
325	330	335
Tyr Ile Ala Gly Lys	Val Ala Ala Lys Asp	Tyr Val Asp Glu Ser Thr
340	345	350
Gly Glu Leu Ile Cys	Pro Ala Asn Met Glu	Leu Ser Leu Asp Leu Leu
355	360	365
Ala Lys Leu Ser Gln	Ala Gly His Lys Arg	Ile Glu Thr Leu Phe Thr
370	375	380
Asn Asp Leu Asp His	Gly Pro Tyr Ile Ser	Glu Thr Val Arg Val Asp
385	390	395
Pro Thr Asn Asp Arg	Leu Ser Ala Leu Val	Glu Ile Tyr Arg Met Met
405	410	415
Arg Pro Gly Glu Pro	Pro Thr Arg Glu Ala	Ala Glu Ser Leu Phe Glu
420	425	430
Asn Leu Phe Phe Ser	Glu Asp Arg Tyr Asp	Leu Ser Ala Val Gly Arg
435	440	445
Met Lys Phe Asn Arg	Ser Leu Leu Arg Asp	Glu Ile Glu Gly Ser Gly
450	455	460
Ile Leu Ser Lys Asp	Asp Ile Ile Glu Val	Met Lys Lys Leu Ile Asp
465	470	475
Ile Arg Asn Gly Lys	Gly Glu Val Asp Asp	Ile Asp His Leu Gly Asn
485	490	495
Arg Arg Ile Arg Ser	Val Gly Glu Met Ala	Glu Asn Gln Phe Arg Val
500	505	510
Gly Leu Val Arg Val	Glu Arg Ala Val Lys	Glu Arg Leu Ser Leu Gly
515	520	525
Asp Leu Asp Thr Leu	Met Pro Gln Asp Met	Ile Asn Ala Lys Pro Ile
530	535	540
Ser Ala Ala Val Lys	Glu Phe Phe Gly Ser	Ser Gln Leu Ser Gln Phe
545	550	555
Met Asp Gln Asn Asn	Pro Leu Ser Glu Ile	Thr His Lys Arg Arg Ile
565	570	575
Ser Ala Leu Gly Pro	Gly Gly Leu Thr Arg	Glu Arg Ala Gly Phe Glu
580	585	590
Val Arg Asp Val His	Pro Thr His Tyr Gly	Arg Val Cys Pro Ile Glu
595	600	605
Thr Pro Glu Gly Pro	Asn Ile Gly Leu Ile	Asn Ser Leu Ser Val Tyr
610	615	620
Ala Gln Thr Asn Glu	Tyr Gly Phe Leu Glu	Thr Pro Tyr Arg Lys Val
625	630	635
Thr Asp Gly Val Val	Thr Asp Glu Ile His	Tyr Leu Ser Ala Ile Glu
645	650	655
Glu Gly Asn Tyr Val	Ile Ala Gln Ala Asn	Ser Asn Leu Asp Asp Glu
660	665	670
Gly His Phe Val Glu	Asp Leu Val Thr Cys	Arg Ser Lys Gly Glu Ser
675	680	685
Ser Leu Phe Ser Arg	Asp Gln Val Asp Tyr	Met Asp Val Ser Thr Gln
690	695	700

Gln Val Val Ser Val Gly Ala Ser Leu Ile Pro Phe Leu Glu His Asp
 705 710 715 720
 Asp Ala Asn Arg Ala Leu Met Gly Ala Asn Met Gln Arg Gln Ala Val
 725 730 735
 Pro Thr Leu Arg Ala Asp Lys Pro Leu Val Gly Thr Gly Met Glu Arg
 740 745 750
 Ala Val Ala Val Asp Ser Gly Val Thr Ala Val Ala Lys Arg Gly Gly
 755 760 765
 Thr Val Gln Tyr Val Asp Ala Ser Arg Ile Val Ile Lys Val Asn Glu
 770 775 780
 Asp Glu Met Tyr Pro Gly Glu Ala Gly Ile Asp Ile Tyr Asn Leu Thr
 785 790 795 800
 Lys Tyr Thr Arg Ser Asn Gln Asn Thr Cys Ile Asn Gln Met Pro Cys
 805 810 815
 Val Ser Leu Gly Glu Pro Val Glu Arg Gly Asp Val Leu Ala Asp Gly
 820 825 830
 Pro Ser Thr Asp Leu Gly Glu Leu Ala Leu Gly Gln Asn Met Arg Val
 835 840 845
 Ala Phe Met Pro Trp Asn Gly Tyr Asn Phe Glu Asp Ser Ile Leu Val
 850 855 860
 Ser Glu Arg Val Val Gln Glu Asp Arg Phe Thr Thr Ile His Ile Gln
 865 870 875 880
 Glu Leu Ala Cys Val Ser Arg Asp Thr Lys Leu Gly Pro Glu Glu Ile
 885 890 895
 Thr Ala Asp Ile Pro Asn Val Gly Glu Ala Ala Leu Ser Lys Leu Asp
 900 905 910
 Glu Ser Gly Ile Val Tyr Ile Gly Ala Glu Val Thr Gly Gly Asp Ile
 915 920 925
 Leu Val Gly Lys Val Thr Pro Lys Gly Glu Thr Gln Leu Thr Pro Glu
 930 935 940
 Glu Lys Leu Leu Arg Ala Ile Phe Gly Glu Lys Ala Ser Asp Val Lys
 945 950 955 960
 Asp Ser Ser Leu Arg Val Pro Asn Gly Val Ser Gly Thr Val Ile Asp
 965 970 975
 Val Gln Val Phe Thr Arg Asp Gly Val Glu Lys Asp Lys Arg Ala Leu
 980 985 990
 Glu Ile Glu Glu Met Gln Leu Lys Gln Ala Lys Lys Asp Leu Ser Glu
 995 1000 1005
 Glu Leu Gln Ile Leu Glu Ala Gly Leu Phe Ser Arg Ile Tyr Ala Val
 1010 1015 1020
 Leu Val Ala Gly Gly Val Glu Ala Glu Lys Leu Asp Lys Leu Pro Arg
 1025 1030 1035 1040
 Asp Arg Trp Leu Glu Leu Gly Leu Thr Asp Glu Glu Lys Gln Asn Gln
 1045 1050 1055
 Leu Glu Gln Leu Ala Glu Gln Tyr Asp Glu Leu Lys His Glu Phe Glu
 1060 1065 1070
 Lys Lys Leu Glu Ala Lys Arg Arg Lys Ile Thr Gln Gly Asp Asp Leu
 1075 1080 1085
 Ala Pro Gly Val Leu Lys Ile Val Lys Val Tyr Leu Ala Val Lys Arg
 1090 1095 1100
 Gln Ile Gln Pro Gly Asp Lys Met Ala Gly Arg His Gly Asn Lys Gly
 1105 1110 1115 1120
 Val Ile Ser Lys Ile Asn Pro Ile Glu Asp Met Pro His Asp Ala Asn
 1125 1130 1135
 Gly Thr Pro Val Asp Ile Val Leu Asn Pro Leu Gly Val Pro Ser Arg
 1140 1145 1150
 Met Asn Ile Gly Gln Ile Leu Glu Thr His Leu Gly Met Ala Ala Lys
 1155 1160 1165
 Gly Ile Gly Asp Lys Ile Asn Ala Met Leu Lys Gln Gln Gln Glu Val
 1170 1175 1180
 Ala Lys Leu Arg Glu Phe Ile Gln Arg Ala Tyr Asp Leu Gly Thr Asp

1185		1190		1195		1200
Val Arg Gln Lys	Val Asp Leu Asn Thr Phe Ser Asp Glu Glu Val Leu					
	1205		1210			1215
Arg Leu Ala Glu Asn Leu Arg Lys Gly Met Pro Ile Ala Thr Pro Val						
	1220		1225			1230
Phe Asp Gly Ala Lys Glu Ala Glu Ile Lys Glu Leu Leu Gln Leu Gly						
	1235		1240			1245
Gly Leu Pro Thr Ser Gly Gln Ile Thr Leu Phe Asp Gly Arg Thr Gly						
	1250		1255			1260
Glu Gln Phe Glu Arg Pro Val Thr Val Gly Tyr Met Tyr Met Leu Lys						
1265		1270		1275		1280
Leu Asn His Leu Val Asp Asp Lys Met His Ala Arg Ser Thr Gly Ser						
	1285		1290			1295
Tyr Ser Leu Val Thr Gln Gln Pro Leu Gly Gly Lys Ala Gln Phe Gly						
	1300		1305			1310
Gly Gln Arg Phe Gly Glu Met Glu Val Trp Ala Leu Glu Ala Tyr Gly						
	1315		1320			1325
Ala Ala Tyr Thr Leu Gln Glu Met Leu Thr Val Lys Ser Asp Asp Val						
	1330		1335			1340
Asn Gly Arg Thr Lys Met Tyr Lys Asn Ile Val Asp Gly Asn His Gln						
1345		1350		1355		1360
Met Glu Pro Gly Met Pro Glu Ser Phe Asn Val Leu Leu Lys Glu Ile						
	1365		1370			1375
Arg Ser Leu Gly Ile Asn Ile Glu Leu Glu Asp Glu						
	1380		1385			

<210> 8230

<211> 204

<212> PRT

<213> Enterobacter cloacae

<400> 8230

Phe Ser Ile Arg Asp Ile Ile Met Leu Gln Asn Pro Ile His Leu Arg																			
1		5				10									15				
Leu Glu Lys Leu Glu Ser Trp Gln His Val Thr Phe Met Ala Cys Leu																			
	20					25									30				
Cys Glu Arg Met Tyr Pro Asn Tyr Ala Ala Phe Cys Lys Gln Thr Ala																			
	35					40									45				
Phe Gly Glu Gly Gln Ile Tyr Arg Arg Ile Leu Asp Leu Ile Trp Glu																			
	50					55									60				
Thr Leu Thr Val Lys Asp Ala Lys Val Asn Phe Asp Ser Gln Leu Glu																			
	65					70									75				80
Lys Leu Glu Glu Ala Ile Pro Ala Ala Asp Asp Phe Asp Leu Tyr Gly																			
		85				90													95
Val Tyr Pro Ala Ile Asp Ala Cys Val Ala Leu Ser Glu Leu Ile His																			
	100					105									110				
Ser Arg Leu Ser Gly Glu Thr Leu Glu His Ala Ile Glu Val Ser Lys																			
	115					120									125				
Ala Ser Ile Thr Thr Val Ala Met Leu Glu Met Thr Gln Glu Gly Arg																			
	130					135									140				
Glu Met Thr Asp Glu Glu Leu Arg Ala Asn Pro Ala Val Glu Gln Glu																			
	145					150									155				160
Trp Asp Ile Gln Trp Glu Ile Phe Arg Leu Leu Ala Glu Cys Glu Glu																			
		165																	175
Arg Asp Ile Glu Leu Ile Lys Gly Leu Arg Ala Asp Leu Arg Glu Ala																			
	180																		190
Gly Glu Ser Asn Ile Gly Ile Ile Phe Asn Gln																			
	195					200													

<210> 8231

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 8231

Leu Met Asn Lys Thr Gln Leu Ile Asp Val Ile Ala Asp Lys Ala Asp
 1 5 10 15
 Leu Ser Lys Val Gln Ala Lys Ala Ala Leu Glu Ser Thr Leu Ala Ala
 20 25 30
 Ile Thr Glu Ser Leu Lys Glu Gly Asp Ala Val Gln Leu Val Gly Phe
 35 40 45
 Gly Thr Phe Lys Val Asn His Arg Ala Glu Arg Thr Gly Arg Asn Pro
 50 55 60
 Gln Thr Gly Lys Glu Ile Lys Ile Ala Ala Ala Asn Val Pro Ala Phe
 65 70 75 80
 Val Ser Gly Lys Ala Leu Lys Asp Ala Val Lys
 85 90

<210> 8232

<211> 1422

<212> PRT

<213> Enterobacter cloacae

<400> 8232

Arg Pro Thr Ala Glu Cys Ala Asn Ser Asp Gly Ser Lys Ser Val Lys
 1 5 10 15
 Asp Leu Leu Lys Phe Leu Lys Ala Gln Thr Lys Thr Glu Glu Phe Asp
 20 25 30
 Ala Ile Lys Ile Ala Leu Ala Ser Pro Asp Met Ile Arg Ser Trp Ser
 35 40 45
 Phe Gly Glu Val Lys Lys Pro Glu Thr Ile Asn Tyr Arg Thr Phe Lys
 50 55 60
 Pro Glu Arg Asp Gly Leu Phe Cys Ala Arg Ile Phe Gly Pro Val Lys
 65 70 75 80
 Asp Tyr Glu Cys Leu Cys Gly Lys Tyr Lys Arg Leu Lys His Arg Gly
 85 90 95
 Val Ile Cys Glu Lys Cys Gly Val Glu Val Thr Gln Thr Lys Val Arg
 100 105 110
 Arg Glu Arg Met Gly His Ile Glu Leu Ala Ser Pro Thr Ala His Ile
 115 120 125
 Trp Phe Leu Lys Ser Leu Pro Ser Arg Ile Gly Leu Leu Leu Asp Met
 130 135 140
 Pro Leu Arg Asp Ile Glu Arg Val Leu Tyr Phe Glu Ser Tyr Val Val
 145 150 155 160
 Ile Glu Gly Gly Met Thr Asn Leu Glu Arg Asn Gln Ile Leu Thr Glu
 165 170 175
 Glu Gln Tyr Leu Asp Ala Leu Glu Glu Phe Gly Asp Glu Phe Asp Ala
 180 185 190
 Lys Met Gly Ala Glu Ala Ile Gln Ala Leu Leu Lys Ser Met Asp Leu
 195 200 205
 Glu Gln Glu Cys Glu Thr Leu Arg Glu Glu Leu Asn Glu Thr Asn Ser
 210 215 220
 Glu Thr Lys Arg Lys Lys Leu Thr Lys Arg Ile Lys Leu Leu Glu Ala
 225 230 235 240
 Phe Val Gln Ser Gly Asn Lys Pro Glu Trp Met Ile Leu Thr Val Leu
 245 250 255
 Pro Val Leu Pro Pro Asp Leu Arg Pro Leu Val Pro Leu Asp Gly Gly
 260 265 270
 Arg Phe Ala Thr Ser Asp Leu Asn Asp Leu Tyr Arg Arg Val Ile Asn
 275 280 285
 Arg Asn Asn Arg Leu Lys Arg Leu Leu Asp Leu Ala Ala Pro Asp Ile
 290 295 300

Ile	Val	Arg	Asn	Glu	Lys	Arg	Met	Leu	Gln	Glu	Ala	Val	Asp	Ala	Leu
305					310					315					320
Leu	Asp	Asn	Gly	Arg	Arg	Gly	Arg	Ala	Ile	Thr	Gly	Ser	Asn	Lys	Arg
				325					330					335	
Pro	Leu	Lys	Ser	Leu	Ala	Asp	Met	Ile	Lys	Gly	Lys	Gln	Gly	Arg	Phe
			340					345					350		
Arg	Gln	Asn	Leu	Leu	Gly	Lys	Arg	Val	Asp	Tyr	Ser	Gly	Arg	Ser	Val
		355					360					365			
Ile	Thr	Val	Gly	Pro	Tyr	Leu	Arg	Leu	His	Gln	Cys	Gly	Leu	Pro	Lys
	370					375					380				
Lys	Met	Ala	Leu	Glu	Leu	Phe	Lys	Pro	Phe	Ile	Tyr	Gly	Lys	Leu	Glu
385					390					395					400
Leu	Arg	Gly	Leu	Ala	Thr	Thr	Ile	Lys	Ala	Ala	Lys	Lys	Met	Val	Glu
				405					410					415	
Arg	Glu	Glu	Ala	Val	Val	Trp	Asp	Ile	Leu	Asp	Glu	Val	Ile	Arg	Glu
			420					425					430		
His	Pro	Val	Leu	Leu	Asn	Arg	Ala	Pro	Thr	Leu	His	Arg	Leu	Gly	Ile
		435					440					445			
Gln	Ala	Phe	Glu	Pro	Val	Leu	Ile	Glu	Gly	Lys	Ala	Ile	Gln	Leu	His
	450					455					460				
Pro	Leu	Val	Cys	Ala	Ala	Tyr	Asn	Ala	Asp	Phe	Asp	Gly	Asp	Gln	Met
465					470					475					480
Ala	Val	His	Val	Pro	Leu	Thr	Leu	Glu	Ala	Gln	Leu	Glu	Ala	Arg	Ala
				485					490					495	
Leu	Met	Met	Ser	Thr	Asn	Asn	Ile	Leu	Ser	Pro	Ala	Asn	Gly	Glu	Pro
			500					505					510		
Ile	Ile	Val	Pro	Ser	Gln	Asp	Val	Val	Leu	Gly	Leu	Tyr	Tyr	Met	Thr
		515					520					525			
Arg	Asp	Cys	Val	Asn	Ala	Lys	Gly	Glu	Gly	Met	Val	Leu	Thr	Gly	Pro
	530					535					540				
Lys	Glu	Ala	Glu	Arg	Ile	Tyr	Arg	Ala	Gly	Leu	Ala	Ser	Leu	His	Ala
545					550					555					560
Arg	Val	Lys	Val	Arg	Ile	Thr	Glu	Tyr	Glu	Lys	Asp	Glu	Asn	Gly	Glu
				565					570					575	
Phe	Val	Ala	His	Thr	Ser	Leu	Lys	Asp	Thr	Thr	Val	Gly	Arg	Ala	Ile
			580					585					590		
Leu	Trp	Met	Ile	Val	Pro	Lys	Gly	Leu	Pro	Phe	Ser	Ile	Val	Asn	Gln
		595					600					605			
Ala	Leu	Gly	Lys	Lys	Ala	Ile	Ser	Lys	Met	Leu	Asn	Thr	Cys	Tyr	Arg
	610					615					620				
Ile	Leu	Gly	Leu	Lys	Pro	Thr	Val	Ile	Phe	Ala	Asp	Gln	Thr	Met	Tyr
625					630					635					640
Thr	Gly	Phe	Ala	Tyr	Ala	Ala	Arg	Ser	Gly	Ala	Ser	Val	Gly	Ile	Asp
				645					650					655	
Asp	Met	Val	Ile	Pro	Glu	Lys	Lys	His	Glu	Ile	Ile	Ser	Glu	Ala	Glu
			660					665					670		
Ala	Glu	Val	Ala	Glu	Ile	Gln	Glu	Gln	Phe	Gln	Ser	Gly	Leu	Val	Thr
		675					680					685			
Ala	Gly	Glu	Arg	Tyr	Asn	Lys	Val	Ile	Asp	Ile	Trp	Ala	Ala	Ala	Asn
	690					695					700				
Asp	Arg	Val	Ser	Lys	Ala	Met	Met	Asp	Asn	Leu	Gln	Thr	Glu	Thr	Val
705					710					715					720
Ile	Asn	Arg	Asp	Gly	Val	Glu	Glu	Gln	Gln	Val	Ser	Phe	Asn	Ser	Ile
				725					730					735	
Tyr	Met	Met	Ala	Asp	Ser	Gly	Ala	Arg	Gly	Ser	Ala	Ala	Gln	Ile	Arg
			740					745					750		
Gln	Leu	Ala	Gly	Met	Arg	Gly	Leu	Met	Ala	Lys	Pro	Asp	Gly	Ser	Ile
		755					760					765			
Ile	Glu	Thr	Pro	Ile	Thr	Ala	Asn	Phe	Arg	Glu	Gly	Leu	Asn	Val	Leu
	770					775					780				
Gln	Tyr	Phe	Ile	Ser	Thr	His	Gly	Ala	Arg	Lys	Gly	Leu	Ala	Asp	Thr

785					790					795				800
Ala	Leu	Lys	Thr	Ala	Asn	Ser	Gly	Tyr	Leu	Thr	Arg	Arg	Leu	Val Asp
				805					810					815
Val	Ala	Gln	Asp	Leu	Val	Val	Thr	Glu	Asp	Asp	Cys	Gly	Thr	Leu Glu
			820					825					830	
Gly	Ile	Thr	Met	Thr	Pro	Val	Ile	Glu	Gly	Gly	Asp	Val	Lys	Glu Pro
		835					840					845		
Leu	Arg	Asp	Arg	Val	Leu	Gly	Arg	Val	Thr	Ala	Glu	Asp	Ile	Leu Lys
	850					855					860			
Pro	Gly	Thr	Ala	Asp	Ile	Leu	Val	Pro	Arg	Asn	Thr	Leu	Leu	His Glu
865					870					875				880
Gln	Trp	Cys	Asp	Leu	Leu	Glu	Ala	Asn	Ser	Val	Asp	Ser	Val	Lys Val
			885					890						895
Arg	Ser	Val	Val	Ser	Cys	Asp	Thr	Asp	Phe	Gly	Val	Cys	Ala	His Cys
			900					905					910	
Tyr	Gly	Arg	Asp	Leu	Ala	Arg	Gly	His	Ile	Ile	Asn	Lys	Gly	Glu Ala
	915						920					925		
Ile	Gly	Val	Ile	Ala	Ala	Gln	Ser	Ile	Gly	Glu	Pro	Gly	Thr	Gln Leu
	930					935					940			
Thr	Met	Arg	Thr	Phe	His	Ile	Gly	Gly	Ala	Ala	Ser	Arg	Ala	Ala Ala
945					950				955					960
Glu	Ser	Ser	Ile	Gln	Val	Lys	Asn	Lys	Gly	Ser	Ile	Lys	Leu	Ser Asn
			965					970						975
Ala	Lys	Ser	Val	Val	Asn	Ser	Ser	Gly	Lys	Leu	Val	Ile	Thr	Ser Arg
			980					985					990	
Asn	Thr	Glu	Leu	Lys	Leu	Ile	Asp	Glu	Phe	Gly	Arg	Thr	Lys	Glu Ser
	995						1000					1005		
Tyr	Lys	Val	Pro	Tyr	Gly	Ala	Val	Met	Ala	Lys	Gly	Asp	Gly	Glu Gln
	1010				1015						1020			
Val	Ala	Gly	Gly	Glu	Thr	Val	Ala	Asn	Trp	Asp	Pro	His	Thr	Met Pro
1025					1030					1035				1040
Val	Ile	Thr	Glu	Val	Ser	Gly	Phe	Ile	Arg	Phe	Thr	Asp	Met	Ile Asp
			1045					1050						1055
Gly	Gln	Thr	Ile	Thr	Arg	Gln	Thr	Asp	Glu	Leu	Thr	Gly	Leu	Ser Ser
		1060						1065					1070	
Leu	Val	Val	Leu	Asp	Ser	Ala	Glu	Arg	Thr	Thr	Gly	Gly	Lys	Asp Leu
	1075						1080					1085		
Arg	Pro	Ala	Leu	Lys	Ile	Val	Asp	Ala	Gln	Gly	Asn	Asp	Val	Leu Ile
	1090					1095					1100			
Pro	Gly	Thr	Asp	Met	Pro	Ala	Gln	Tyr	Phe	Leu	Pro	Gly	Lys	Ala Ile
1105					1110					1115				1120
Val	Gln	Leu	Glu	Asp	Gly	Val	Gln	Ile	Ser	Ser	Gly	Asp	Thr	Leu Ala
			1125					1130						1135
Arg	Ile	Pro	Gln	Glu	Ser	Gly	Gly	Thr	Lys	Asp	Ile	Thr	Gly	Gly Leu
		1140						1145					1150	
Pro	Arg	Val	Ala	Asp	Leu	Phe	Glu	Ala	Arg	Arg	Pro	Lys	Glu	Pro Ala
	1155						1160					1165		
Ile	Leu	Ala	Glu	Ile	Ser	Gly	Ile	Ile	Ser	Phe	Gly	Lys	Glu	Thr Lys
	1170					1175					1180			
Gly	Lys	Arg	Arg	Leu	Val	Ile	Thr	Pro	Val	Asp	Gly	Ser	Glu	Pro Tyr
1185					1190					1195				1200
Glu	Glu	Met	Ile	Pro	Lys	Trp	Arg	Gln	Leu	Asn	Val	Phe	Glu	Gly Glu
			1205					1210					1215	
Arg	Val	Glu	Arg	Gly	Asp	Val	Val	Ser	Asp	Gly	Pro	Glu	Ala	Pro His
		1220						1225					1230	
Asp	Ile	Leu	Arg	Leu	Arg	Gly	Val	His	Ala	Val	Thr	Arg	Tyr	Ile Val
	1235						1240					1245		
Asn	Glu	Val	Gln	Asp	Val	Tyr	Arg	Leu	Gln	Gly	Val	Lys	Ile	Asn Asp
	1250					1255					1260			
Lys	His	Ile	Glu	Val	Ile	Val	Arg	Gln	Met	Leu	Arg	Lys	Ala	Thr Ile
1265					1270					1275				1280

Glu Asn Ala Gly Ser Ser Asp Phe Leu Glu Gly Glu Gln Val Glu Tyr
 1285 1290 1295
 Ser Arg Val Lys Ile Ala Asn Arg Asp Leu Glu Ala Asn Gly Lys Ile
 1300 1305 1310
 Gly Ala Thr Phe Ser Arg Asp Leu Leu Gly Ile Thr Lys Ala Ser Leu
 1315 1320 1325
 Ala Thr Glu Ser Phe Ile Ser Ala Ala Ser Phe Gln Glu Thr Thr Arg
 1330 1335 1340
 Val Leu Thr Glu Ala Ala Val Ala Gly Lys Arg Asp Glu Leu Arg Gly
 1345 1350 1355 1360
 Leu Lys Glu Asn Val Ile Val Gly Arg Leu Ile Pro Ala Gly Thr Gly
 1365 1370 1375
 Tyr Ala Tyr His Gln Asp Arg Met Arg Arg Arg Ala Ala Gly Glu Leu
 1380 1385 1390
 Pro Ala Ala Pro Gln Val Thr Ala Glu Asp Ala Ser Ala Ser Leu Ala
 1395 1400 1405
 Glu Leu Leu Asn Ala Gly Leu Gly Gly Ser Asp Asn Glu
 1410 1415 1420

<210> 8233

<211> 364

<212> PRT

<213> Enterobacter cloacae

<400> 8233

Arg Thr Asp Ala Ile Arg Asn Cys Lys Met Thr Glu Leu Lys Asn Asp
 1 5 10 15
 Arg Tyr Leu Arg Ala Leu Leu Arg Gln Pro Val Asp Val Thr Pro Val
 20 25 30
 Trp Met Met Arg Gln Ala Gly Arg Tyr Leu Pro Glu Tyr Lys Ala Thr
 35 40 45
 Arg Ala Gln Ala Gly Asp Phe Met Ser Leu Cys Lys Asn Ala Glu Leu
 50 55 60
 Ala Cys Glu Val Thr Leu Gln Pro Leu Arg Arg Phe Pro Leu Asp Ala
 65 70 75 80
 Ala Ile Leu Phe Ser Asp Ile Leu Thr Ile Pro Asp Ala Met Gly Leu
 85 90 95
 Gly Leu Tyr Phe Glu Thr Gly Glu Gly Pro Arg Phe Thr Ser Pro Ile
 100 105 110
 Lys Ser Lys Ala Asp Val Asp Lys Leu Pro Ile Pro Asp Pro Glu Gly
 115 120 125
 Glu Leu Ser Tyr Val Met Asn Ala Val Arg Thr Ile Arg Arg Glu Leu
 130 135 140
 Lys Gly Asp Val Pro Leu Ile Gly Phe Ser Gly Ser Pro Trp Thr Leu
 145 150 155 160
 Ala Thr Tyr Met Val Glu Gly Gly Ser Ser Lys Ala Phe Thr Val Ile
 165 170 175
 Lys Lys Met Met Tyr Ala Glu Pro Leu Ala Leu His Ala Leu Leu Asp
 180 185 190
 Lys Leu Ala Lys Ser Val Thr Leu Tyr Leu Asn Ala Gln Ile Lys Ala
 195 200 205
 Gly Ala Gln Ser Val Met Ile Phe Asp Thr Trp Gly Gly Val Leu Thr
 210 215 220
 Gly Arg Asp Tyr Gln Gln Phe Ser Leu Tyr Tyr Met His Lys Ile Val
 225 230 235 240
 Asp Gly Leu Leu Arg Glu Asn Glu Gly Arg Arg Val Pro Val Thr Leu
 245 250 255
 Phe Thr Lys Gly Gly Gln Trp Leu Glu Ala Met Ala Ala Thr Gly
 260 265 270
 Cys Asp Ala Leu Gly Leu Asp Trp Thr Thr Asp Ile Ala Asp Ala Arg
 275 280 285

Arg	Arg	Val	Gly	Asp	Lys	Val	Ala	Leu	Gln	Gly	Asn	Met	Asp	Pro	Ser
	290					295					300				
Met	Leu	Tyr	Ala	Gln	Pro	Ala	Arg	Ile	Glu	Glu	Glu	Val	Ser	Thr	Ile
305					310					315					320
Leu	Ser	Gly	Phe	Gly	Gln	Gly	Glu	Gly	His	Val	Phe	Asn	Leu	Gly	His
				325					330					335	
Gly	Ile	His	Gln	Asp	Val	Pro	Pro	Glu	His	Ala	Gly	Val	Phe	Val	Glu
			340					345					350		
Ala	Val	His	Arg	Leu	Ser	Ala	Gln	Tyr	His	Lys					
		355					360								

<210> 8234

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 8234

Gly	Val	Val	Met	Asp	Leu	Ala	Ser	Leu	Arg	Ala	Gln	Gln	Ile	Glu	Leu
1				5					10					15	
Ala	Ser	Ser	Val	Ile	Arg	Glu	Asp	Arg	Leu	Asp	Thr	Asp	Pro	Pro	Arg
			20					25					30		
Tyr	Ile	Gly	Gly	Ala	Asp	Val	Gly	Phe	Glu	Gln	Gly	Gly	Glu	Val	Thr
		35					40					45			
Arg	Ala	Ala	Met	Val	Val	Leu	Lys	Tyr	Pro	Ser	Leu	Glu	Leu	Val	Glu
	50					55					60				
Tyr	Lys	Val	Ala	Arg	Ile	Ala	Thr	Thr	Met	Pro	Tyr	Ile	Pro	Gly	Phe
65				70					75					80	
Leu	Ser	Phe	Arg	Glu	Tyr	Pro	Ala	Leu	Leu	Ala	Ala	Trp	Glu	Gln	Leu
				85				90						95	
Ser	Gln	Lys	Pro	Asp	Leu	Leu	Phe	Val	Asp	Gly	His	Gly	Ile	Ser	His
			100					105					110		
Pro	Arg	Arg	Leu	Gly	Val	Ala	Ser	His	Phe	Gly	Leu	Leu	Val	Asp	Val
			115				120					125			
Pro	Thr	Ile	Gly	Val	Ala	Lys	Lys	Arg	Leu	Cys	Gly	Ala	Phe	Glu	Pro
			130			135					140				
Leu	Ser	Ala	Glu	Pro	Gly	Ala	Leu	Ala	Pro	Leu	Ile	His	Lys	Gly	Glu
145					150				155					160	
Gln	Leu	Ala	Trp	Val	Trp	Arg	Ser	Lys	Ala	Arg	Cys	Asn	Pro	Leu	Phe
				165				170						175	
Ile	Ala	Thr	Gly	His	Arg	Val	Ser	Met	Asp	Ser	Ala	Leu	Ala	Trp	Val
			180				185						190		
Gln	Arg	Cys	Met	Lys	Gly	Tyr	Arg	Leu	Pro	Glu	Pro	Thr	Arg	Trp	Ala
		195					200					205			
Asp	Ala	Val	Ala	Ser	Ser	Arg	Pro	Ala	Phe	Ile	Arg	Trp	Gln	Glu	Ile
		210				215					220				
Gln	Pro														
225															

<210> 8235

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 8235

Val	Lys	Thr	Thr	Arg	Met	Glu	His	Pro	Gly	Ala	Ala	Ala	Arg	Leu	Phe
1				5					10					15	
Lys	Glu	Phe	Ala	Lys	Ala	Asn	Ala	Lys	Phe	Glu	Val	Lys	Ala	Ala	Ala
			20					25					30		
Phe	Glu	Gly	Glu	Leu	Ile	Pro	Ala	Ser	Gln	Ile	Asp	Arg	Leu	Ala	Thr
		35					40					45			
Leu	Pro	Thr	Tyr	Glu	Glu	Ala	Ile	Ala	Arg	Leu	Met	Ala	Thr	Met	Lys

50 55 60
 Glu Ala Ala Ala Gly Lys Leu Val Arg Thr Leu Ala Ala Val Arg Asp
 65 70 75 80
 Ala Lys Glu Ala Ala
 85

<210> 8236

<211> 122

<212> PRT

<213> Enterobacter cloacae

<400> 8236

Met Ser Ile Thr Lys Asp Gln Ile Ile Glu Ala Val Ala Ala Met Ser
 1 5 10 15
 Val Met Asp Val Val Glu Leu Val Ser Ala Met Glu Glu Lys Phe Gly
 20 25 30
 Val Ser Ala Ala Ala Ala Val Ala Val Ala Ala Gly Pro Ala Glu Ala
 35 40 45
 Ala Glu Glu Lys Thr Glu Phe Asp Val Ile Leu Lys Ala Ala Gly Ala
 50 55 60
 Asn Lys Val Ala Val Ile Lys Ala Val Arg Gly Ala Thr Gly Leu Gly
 65 70 75 80
 Leu Lys Glu Ala Lys Asp Leu Val Glu Ser Ala Pro Ala Ala Leu Lys
 85 90 95
 Glu Gly Val Ser Lys Asp Asp Ala Glu Ala Leu Lys Lys Ser Leu Glu
 100 105 110
 Glu Ala Gly Ala Glu Val Glu Val Lys
 115 120

<210> 8237

<211> 265

<212> PRT

<213> Enterobacter cloacae

<400> 8237

Ser Glu Gly Ser Ala Ile Asp Met Asp Arg Ile Ile Glu Lys Ser Asp
 1 5 10 15
 Leu Gly Trp Trp Ile Val Ser His Glu Gln Lys Leu Trp Leu Pro Gly
 20 25 30
 Gly Glu Ile Pro Tyr Gly Ala Ala Glu Ile Phe Asp Leu Val Gly Gln
 35 40 45
 Pro Ala Leu Arg Ile Gly Glu Trp Gln Gly Asp Pro Val Trp Leu Ile
 50 55 60
 Leu Gln Ala Arg Arg Gln Asp Met Gly Ser Val Arg Gln Val Leu Asp
 65 70 75 80
 Arg Asp Val Gly Leu Phe Gln Leu Ala Gly Arg Gly Val Gln Leu Ala
 85 90 95
 Glu Phe Tyr Arg Ser His Lys Tyr Cys Gly Tyr Cys Gly His Thr Met
 100 105 110
 His Pro Ser Lys Thr Glu Trp Ala Met Leu Cys Gly His Cys Arg Glu
 115 120 125
 Arg Tyr Tyr Pro Gln Ile Ala Pro Cys Ile Ile Val Ala Ile Arg Arg
 130 135 140
 Asp Asp Ser Ile Leu Leu Ala Gln His Thr Arg His Arg Asn Gly Ile
 145 150 155 160
 His Thr Val Leu Ala Gly Phe Val Glu Val Gly Glu Thr Leu Glu Gln
 165 170 175
 Ala Val Ala Arg Glu Val Met Glu Glu Ser Gly Ile Lys Val Lys Asn
 180 185 190
 Leu Arg Tyr Val Thr Ser Gln Pro Trp Pro Phe Pro Met Ser Leu Met
 195 200 205

Thr Ala Phe Met Ala Glu Tyr Asp Ser Gly Glu Ile Val Ile Asp Lys
 210 215 220
 Lys Glu Leu Leu Glu Ala Asn Trp Tyr Arg Tyr Asp Asp Leu Pro Leu
 225 230 235 240
 Leu Pro Pro Pro Gly Thr Val Ala Arg Arg Leu Ile Glu Asp Thr Val
 245 250 255
 Ala Met Cys Arg Ala Glu Tyr Glu
 260 265

<210> 8238
 <211> 236
 <212> PRT
 <213> Enterobacter cloacae

<400> 8238
 Val Arg Arg Val Ala Val Asn Ser Phe Asn Glu Gly Ala Ala Thr Pro
 1 5 10 15
 Leu Leu Ser Phe Trp Arg Gly Pro Leu Ala Leu Ala Gly Val Leu Leu
 20 25 30
 Leu Ser Ala Cys Ser His Asp Ser Ser Leu Pro Pro Phe Thr Ala Ser
 35 40 45
 Gly Tyr Ala Asp Asn Gln Gly Ala Val Arg Ile Trp Arg Lys Asp Ser
 50 55 60
 Ser Asp Glu Val His Met Leu Thr Ala Phe Ser Pro Trp His Asn Gly
 65 70 75 80
 Asn Thr Ser Thr Ala Glu Tyr Arg Trp Gln Gly Asp Ala Leu Ser Leu
 85 90 95
 Ile Glu Leu Asn Ile Tyr Ser Lys Thr Pro Glu His Val Lys Val Arg
 100 105 110
 Phe Asp Asp His Gly Glu Leu Ser Phe Met Gln His Glu Val Ser Gly
 115 120 125
 Leu Lys Lys Gln Leu Ser Ser Asp Gln Val Ala Leu Tyr Ser Tyr Arg
 130 135 140
 Ala Glu Gln Leu Arg Gln Thr Ser Asp Ala Leu Arg Gln Gly Arg Val
 145 150 155 160
 Val Leu Arg Gln Gly Arg Trp His Ala Asp Gly Thr Val Thr Thr Cys
 165 170 175
 Glu Gly Gln Thr Val Lys Pro Glu Leu Glu Ser Trp Ala Thr Glu His
 180 185 190
 Ile Gln Arg Arg Gln Arg His Ser Ser Val Glu Val Ser Val Ala Trp
 195 200 205
 Leu Glu Ala Pro Glu Gly Ser Gln Leu Leu Leu Val Ala Asn Glu Asp
 210 215 220
 Phe Cys Thr Trp Gln Pro Thr Glu Lys Ser Phe
 225 230 235

<210> 8239
 <211> 299
 <212> PRT
 <213> Enterobacter cloacae

<400> 8239
 Ala Pro Pro Gly Ile Arg Val Arg Thr Ser Leu Ala Pro Ser Val Arg
 1 5 10 15
 Val Thr Ala Leu Ser Cys Trp Ser Ala Ile Ala Ala Thr Leu Arg Arg
 20 25 30
 Ala Asn Gly Leu Lys Trp Asn Ala Leu Thr Thr Cys Ser Glu Ala Asp
 35 40 45
 Met Thr Met Glu Leu Ser Asp Pro Glu Met Met Arg Tyr Asn Arg Gln
 50 55 60
 Ile Val Leu Arg Gly Phe Asp Phe Glu Gly Gln Glu Ala Leu Lys Ala

65					70				75				80		
Ala	Ser	Val	Leu	Val	Val	Gly	Leu	Gly	Gly	Leu	Gly	Cys	Ala	Ala	Ala
				85					90					95	
Gln	Tyr	Leu	Ala	Ala	Ala	Gly	Val	Gly	Ser	Met	Thr	Leu	Leu	Asp	Phe
			100					105					110		
Asp	Thr	Val	Ser	Val	Ser	Asn	Leu	Gln	Arg	Gln	Thr	Leu	His	Ser	Asp
		115					120					125			
Ala	Thr	Val	Gly	Gln	Pro	Lys	Val	Glu	Ser	Ala	Arg	Thr	Ala	Leu	Ala
		130				135					140				
Arg	Ile	Asn	Pro	Asn	Val	Gln	Phe	Thr	Leu	Ile	Asp	Ala	Met	Leu	Asp
145					150					155					160
Asp	Asp	Ala	Leu	Phe	Ala	Gln	Ile	Ala	Arg	His	Asp	Leu	Val	Leu	Asp
				165					170						175
Cys	Thr	Asp	Asn	Val	Ala	Ile	Arg	Asn	Gln	Leu	Asn	Ala	Gly	Cys	Phe
			180					185					190		
Ala	His	Lys	Thr	Pro	Leu	Ile	Ser	Gly	Ala	Ala	Ile	Arg	Met	Glu	Gly
		195					200					205			
Gln	Ile	Thr	Val	Phe	Thr	Tyr	Ala	Glu	Gly	Glu	Pro	Cys	Tyr	Arg	Cys
		210				215					220				
Leu	Ser	Arg	Leu	Phe	Gly	Glu	Asn	Ala	Leu	Thr	Cys	Val	Glu	Ala	Gly
225					230					235					240
Val	Met	Ala	Pro	Leu	Val	Gly	Val	Ile	Gly	Ser	Leu	Gln	Ala	Met	Glu
				245					250					255	
Ala	Ile	Lys	Val	Leu	Ala	His	Tyr	Gly	Thr	Pro	Ala	Ala	Gly	Lys	Ile
			260					265					270		
Val	Met	Tyr	Asp	Ala	Met	Thr	Cys	Gln	Phe	Arg	Glu	Met	Lys	Leu	Met
		275					280					285			
Arg	Asn	Pro	Gly	Cys	Glu	Val	Cys	Glu	Gly						
	290					295									

<210> 8240

<211> 305

<212> PRT

<213> Enterobacter cloacae

<400> 8240

Ser	Glu	Gly	Lys	Lys	Met	Ile	Phe	Asn	Ile	Gln	Arg	Tyr	Ser	Thr	His
1				5					10					15	
Asp	Gly	Pro	Gly	Ile	Arg	Thr	Val	Val	Phe	Leu	Lys	Gly	Cys	Ser	Leu
			20					25					30		
Gly	Cys	Arg	Trp	Cys	Gln	Asn	Pro	Glu	Ser	Arg	Ser	Arg	Ser	Arg	Asp
			35				40					45			
Val	Leu	Phe	Asp	Ala	Arg	Leu	Cys	Leu	Asp	Gly	Cys	Glu	Leu	Cys	Gln
	50					55					60				
Gln	Ala	Ala	Pro	Gly	Cys	Val	Glu	Arg	Ala	Leu	Asn	Gly	Leu	Val	Ile
65					70					75					80
His	Arg	Glu	Lys	Leu	Asn	Asp	Glu	Thr	Leu	Thr	Ala	Leu	Thr	Asp	Cys
			85						90					95	
Cys	Pro	Thr	Gln	Ala	Leu	Thr	Val	Cys	Gly	Glu	Glu	Lys	Gln	Val	Glu
			100					105					110		
Glu	Ile	Met	Ala	Thr	Val	Leu	Arg	Asp	Lys	Pro	Phe	Tyr	Asp	Arg	Ser
		115					120					125			
Gly	Gly	Gly	Ile	Thr	Leu	Ser	Gly	Gly	Glu	Pro	Phe	Met	Asn	Pro	Asp
		130				135					140				
Leu	Ala	His	Ala	Leu	Phe	Lys	Ala	Ser	His	Glu	Gln	Gly	Ile	His	Ser
145					150					155					160
Ala	Val	Glu	Thr	Cys	Leu	His	Val	Pro	Trp	His	Tyr	Ile	Glu	Pro	Ser
				165					170					175	
Leu	Pro	Tyr	Val	Asp	Leu	Phe	Leu	Ala	Asp	Leu	Lys	His	Val	Asp	Gly
		180						185					190		
Asp	Val	Phe	Lys	Gln	Trp	Thr	Asp	Gly	Ser	Ala	Lys	Arg	Ile	Leu	Asp

305

<211> 801

<213> Enterobacter cloacae

Thr 1	Ser	Arg	Glu	Ala 5	Arg	Leu	Ile	Val	Asp 10	Val	Leu	His	Met	Lys 15	Thr
Leu	Lys	Asn	Trp 20	Thr	Leu	Asp	Thr	Gln 25	Ser	Ala	Asn	His	Leu 30	Glu	Leu
Leu	Val	Asp 35	Ser	Gln	His	Arg	Leu 40	Cys	Leu	Tyr	Val	Leu 45	Glu	Glu	Asn
Leu	Phe 50	Arg	Val	Leu	Ile	Lys 55	Arg	Lys	Gly	Glu	Leu 60	Ala	Leu	Asp	Arg
Thr 65	Trp	Ser	Ile	Ala 70	Pro	Glu	Lys	Asp	Val	Pro 75	Trp	Glu	Gly	Arg	Arg 80
Arg	Asp	Asp	Ile 85	Ser	Gly	Phe	Ser	Cys	Pro 90	Ala	Trp	Thr	Leu	Thr 95	Gln
Gln	Asp	Asp 100	Thr	Leu	Thr	Val	Ala 105	Thr	Glu	Gln	Leu	Arg	Val 110	Thr	Val
His	Gln	Pro 115	Leu	Trp	Leu	Glu	Trp 120	His	Tyr	Arg	Asn	Asp 125	Ala	Gly	Glu
Trp	Gln 130	Pro	Leu	Val	Asn	Asp 135	Arg	Pro	Thr	Ser	Ala 140	Tyr	Leu	Leu	Asn
Ala 145	His	Gly	Asp	Gly 150	Val	Ala	His	Tyr	Leu 155	Ser	Arg	Arg	Lys	Asp	Glu 160
Arg	Phe	Tyr	Gly 165	Leu	Gly	Glu	Lys	Ala 170	Gly	Asp	Leu	Gln	Arg	Asn 175	Gly
Lys	Arg	Tyr 180	Glu	Met	Arg	Asn	Leu 185	Asp	Ala	Met	Gly	Tyr	Asn 190	Ala	Ala
Ser	Thr	Asp 195	Pro	Leu	Tyr	Lys	His 200	Ile	Pro	Phe	Thr	Leu 205	Thr	Arg	Arg
Asp	Asp 210	Val	Ser	Tyr	Gly	Leu 215	Phe	Tyr	Asp	Asn	Leu 220	Ser	Ser	Cys	Trp
Leu 225	Asp	Leu	Gly	Asn 230	Glu	Ile	Asp	Asn	Tyr	His 235	Thr	Ala	Tyr	Arg	Arg
Trp	Gln	Ala	Glu 245	Ala	Gly	Asp	Ile	Asp 250	Tyr	Tyr	Leu	Phe	Thr	Gly 255	Lys
Arg	Val	Leu 260	Asp	Val	Thr	Lys	Ala 265	Phe	Val	Arg	Leu	Thr	Gly 270	Lys	Thr
Leu	Phe 275	Gly	Pro	Lys	Trp	Ser	Leu 280	Gly	Tyr	Ser	Gly	Ser 285	Thr	Met	His
Tyr	Thr 290	Asp	Ala	Pro	Asp	Ala 295	Gln	Asn	Gln	Leu	Met 300	Asn	Phe	Ile	Arg
Leu	Cys	Glu	Glu	His	Ala	Ile	Pro	Cys	Asp	Ser	Phe	Gln	Leu	Ser	Ser

305						310						315						320
Gly	Tyr	Thr	Ser	Ile	Asn	Gly	Lys	Arg	Tyr	Val	Phe	Asn	Trp	Asn	Tyr			
				325					330					335				
Asp	Lys	Val	Pro	Gln	Pro	Lys	Val	Met	Ser	Gln	Ala	Phe	His	Asp	Ala			
			340					345					350					
Gly	Leu	Arg	Leu	Ala	Ala	Asn	Ile	Lys	Pro	Cys	Leu	Leu	Gln	Asp	His			
		355					360					365						
Pro	Arg	Tyr	Gly	Glu	Val	Ala	Glu	Arg	Gly	Leu	Phe	Ile	Arg	Asp	Ser			
	370					375					380							
Glu	Thr	Asp	Ala	Pro	Glu	Arg	Ser	Ser	Phe	Trp	Asp	Asp	Glu	Gly	Ser			
385					390					395					400			
His	Leu	Asp	Phe	Thr	Asn	Pro	Gln	Thr	Val	Gln	Trp	Trp	Gln	Asn	Gly			
				405					410					415				
Val	Thr	Thr	Gln	Leu	Leu	Glu	Met	Gly	Ile	Asp	Ser	Thr	Trp	Asn	Asp			
			420					425					430					
Asn	Asn	Glu	Tyr	Glu	Val	Trp	Asp	Gly	Glu	Ala	Arg	Cys	Tyr	Gly	Phe			
		435					440					445						
Gly	Lys	Glu	Ile	Ala	Ile	Lys	His	Ile	Arg	Pro	Val	Met	Pro	Leu	Leu			
	450					455					460							
Met	Met	Arg	Ala	Ser	Leu	Glu	Ala	Gln	Gln	Arg	Phe	Ala	Pro	Glu	Lys			
465					470					475					480			
Arg	Pro	Tyr	Leu	Ile	Ser	Arg	Ser	Gly	Cys	Ala	Gly	Met	Gln	Arg	Tyr			
				485					490					495				
Val	Gln	Thr	Trp	Ser	Gly	Asp	Asn	Arg	Thr	Asn	Trp	Asp	Thr	Leu	Arg			
			500					505					510					
Tyr	Asn	Ile	Arg	Met	Gly	Leu	Gly	Met	Ser	Leu	Ser	Gly	Leu	Phe	Asn			
		515					520					525						
Val	Gly	His	Asp	Val	Gly	Gly	Phe	Ser	Gly	Asp	Lys	Pro	Asp	Ala	Glu			
	530					535					540							
Leu	Phe	Val	Arg	Trp	Val	Gln	Asn	Gly	Val	Met	His	Pro	Arg	Phe	Thr			
545					550					555					560			
Ile	His	Ser	Trp	Asn	Asp	Asp	His	Thr	Val	Asn	Glu	Pro	Trp	Met	Tyr			
				565					570					575				
Pro	Gly	Val	Thr	Pro	Ala	Ile	Arg	Gly	Ala	Ile	Glu	Leu	Arg	Tyr	Arg			
			580					585					590					
Leu	Leu	Pro	Tyr	Leu	Tyr	Thr	Leu	Leu	Trp	Gln	Ala	His	Ala	Asp	Asp			
		595					600					605						
Glu	Pro	Met	Leu	Arg	Pro	Thr	Phe	Leu	Asp	His	Glu	His	Asp	Ala	Gln			
	610					615					620							
Thr	Phe	Lys	Glu	Cys	Asp	Asp	Phe	Leu	Leu	Gly	Arg	Asp	Leu	Leu	Val			
625					630					635					640			
Ala	Ser	Val	Val	Glu	Ala	Gly	Gln	Arg	Glu	Arg	Arg	Val	Trp	Leu	Pro			
				645					650					655				
Asp	Asn	Glu	Thr	Gly	Trp	Tyr	Asp	Phe	Tyr	Thr	His	Ala	Trp	Tyr	Ala			
			660															

<210> 8242
 <211> 443
 <212> PRT
 <213> Enterobacter cloacae

<400> 8242

Pro	Met	Ser	Asn	Val	Thr	His	Pro	Pro	Lys	Ile	Gly	Phe	Val	Ser	Leu
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Gly	Cys	Pro	Lys	Asn	Leu	Val	Asp	Ser	Glu	Arg	Ile	Leu	Thr	Glu	Leu
		20					25						30		
Arg	Thr	Glu	Gly	Tyr	Asp	Val	Val	Pro	Ser	Tyr	Asp	Asn	Ala	Asp	Met
		35					40					45			
Val	Ile	Val	Asn	Thr	Cys	Gly	Phe	Ile	Asp	Ser	Ala	Val	Gln	Glu	Ser
	50					55					60				
Leu	Glu	Ala	Ile	Gly	Glu	Ala	Leu	Thr	Glu	Asn	Gly	Lys	Val	Ile	Val
65				70						75					80
Thr	Gly	Cys	Leu	Gly	Ala	Lys	Glu	Asp	Gln	Ile	Arg	Glu	Val	His	Pro
			85						90					95	
Lys	Val	Leu	Glu	Ile	Thr	Gly	Pro	His	Ser	Tyr	Glu	Gln	Val	Leu	Glu
			100					105					110		
His	Val	His	His	Tyr	Val	Pro	Lys	Pro	Lys	His	Asn	Pro	Phe	Leu	Ser
		115					120					125			
Leu	Val	Pro	Glu	Gln	Gly	Val	Lys	Leu	Thr	Pro	Arg	His	Tyr	Ala	Tyr
	130					135					140				
Leu	Lys	Ile	Ser	Glu	Gly	Cys	Asn	His	Arg	Cys	Thr	Phe	Cys	Ile	Ile
145					150					155					160
Pro	Ser	Met	Arg	Gly	Asp	Leu	Val	Ser	Arg	Pro	Ile	Gly	Glu	Val	Leu
			165						170					175	
Ala	Glu	Ala	Lys	Arg	Leu	Ala	Asp	Ala	Gly	Val	Lys	Glu	Leu	Leu	Val
			180					185					190		
Ile	Ser	Gln	Asp	Thr	Ser	Ala	Tyr	Gly	Val	Asp	Val	Lys	His	Arg	Ser
		195					200					205			
Gly	Phe	His	Asn	Gly	Glu	Pro	Val	Lys	Thr	Ser	Met	Val	Gly	Leu	Cys
	210					215					220				
Glu	Gln	Leu	Ala	Lys	Leu	Gly	Ile	Trp	Thr	Arg	Leu	His	Tyr	Val	Tyr
225					230					235					240
Pro	Tyr	Pro	His	Val	Asp	Asp	Val	Ile	Pro	Leu	Met	Ala	Glu	Gly	Lys
			245						250					255	
Ile	Leu	Pro	Tyr	Leu	Asp	Ile	Pro	Leu	Gln	His	Ala	Ser	Pro	Arg	Ile
		260						265					270		
Leu	Lys	Leu	Met	Lys	Arg	Pro	Gly	Ser	Val	Asp	Arg	Gln	Leu	Ala	Arg
		275					280					285			
Ile	Lys	Gln	Trp	Arg	Glu	Ile	Cys	Pro	Asp	Leu	Thr	Leu	Arg	Ser	Thr
	290					295					300				
Phe	Ile	Val	Gly	Phe	Pro	Gly	Glu	Thr	Glu	Glu	Asp	Phe	Gln	Met	Leu
305					310					315					320
Leu	Asp	Phe	Leu	Lys	Glu	Ala	Arg	Leu	Asp	Arg	Val	Gly	Cys	Phe	Lys
			325						330					335	
Tyr	Ser	Pro	Val	Glu	Gly	Ala	Thr	Ala	Asn	Glu	Leu	Ala	Asp	Gln	Val
		340						345					350		
Pro	Glu	Glu	Val	Lys	Glu	Glu	Arg	Trp	Asn	Arg	Phe	Met	Gln	Leu	Gln
		355					360					365			
Gln	Gln	Ile	Ser	Ala	Glu	Arg	Leu	Gln	Glu	Lys	Val	Gly	Arg	Glu	Ile
	370					375					380				
Leu	Val	Ile	Ile	Asp	Glu	Val	Asp	Glu	Glu	Gly	Ala	Ile	Gly	Arg	Ser
385					390					395					400
Met	Ala	Asp	Ala	Pro	Glu	Ile	Asp	Gly	Ala	Val	Tyr	Leu	Asn	Gly	Glu
				405					410					415	

Thr Asn Val Lys Pro Gly Asp Ile Ile Arg Val Lys Val Glu Asn Ala
 420 425 430
 Asp Glu Tyr Asp Leu Trp Gly Ser Arg Val
 435 440

<210> 8243
 <211> 185
 <212> PRT
 <213> Enterobacter cloacae

<400> 8243
 Pro Gln Lys Arg Gln Ala Gly Arg Arg Asp Asn Arg His Ala Tyr Ala
 1 5 10 15
 His Gly Glu Ile Asp His Asp Arg Arg Arg Ser Arg Gln Asn Met
 20 25 30
 Ala Glu Gln Asp Gly Gly Ile Ala Gly Ser His Ala Ala Arg Arg Leu
 35 40 45
 Asp Lys Gly Leu Leu Leu Gln His Gln Arg Val Ala Thr Tyr Gln Thr
 50 55 60
 Arg Glu Ser Gly Asn Arg Glu Tyr Arg His Gly Asp Asp Asp Val Arg
 65 70 75 80
 His Ala Ala Ala His His Arg His His Gly Asn Arg Gln Gln Asn Thr
 85 90 95
 Gly Lys Gly Lys Gln His Ile Thr Asp Thr His Asp Asp Ala Val Pro
 100 105 110
 Pro Ala Phe Val Val Pro Gly Arg Gln Pro Gln His Gly Ala Asn Cys
 115 120 125
 Cys Ala His Gln His Arg Lys Asp Pro Gly Arg Gln Arg Asp Leu Arg
 130 135 140
 Pro Tyr Gln His Ala Ala Glu Asn Ile Ala Pro Glu Arg Val His Ala
 145 150 155 160
 Lys Pro Val His His Arg Arg Ser Ile Val Gln Pro Val Val Ile Glu
 165 170 175
 Val Val Phe Arg Ile Lys Arg Gly
 180 185

<210> 8244
 <211> 391
 <212> PRT
 <213> Enterobacter cloacae

<400> 8244
 Pro Arg Pro Tyr Glu Asp Lys Leu Met Thr Thr Leu Asn Leu Asn Thr
 1 5 10 15
 Leu Ser Glu Arg Ile Lys Ala His Lys Thr Ala Leu Val His Ile Val
 20 25 30
 Lys Pro Pro Val Cys Thr Glu Arg Ala Gln His Tyr Thr Glu Met Tyr
 35 40 45
 Gln Gln His Met Asp Lys Pro Ile Pro Val Arg Arg Ala Leu Ala Leu
 50 55 60
 Ala His His Leu Ala Lys Arg Thr Ile Trp Ile Lys His Asp Glu Leu
 65 70 75 80
 Ile Ile Gly Asn Gln Ala Ser Glu Val Arg Ala Ala Pro Ile Phe Pro
 85 90 95
 Glu Tyr Thr Val Ser Trp Ile Glu Lys Glu Ile Asp Asp Leu Ala Asp
 100 105 110
 Arg Pro Gly Ala Gly Phe Ala Val Ser Glu Glu Asn Lys Arg Val Leu
 115 120 125
 His Glu Ile Cys Pro Trp Trp Arg Gly Gln Thr Val Gln Asp Arg Cys
 130 135 140
 Tyr Gly Met Phe Thr Asp Glu Gln Lys Gly Leu Leu Glu Thr Gly Ile

145					150					155				160
Ile	Lys	Ala	Glu	Gly	Asn	Met	Thr	Ser	Gly	Asp	Ala	His	Leu	Ala
				165					170					175
Asn	Phe	Pro	Leu	Val	Leu	Glu	Lys	Gly	Leu	Asp	Gly	Leu	Arg	Ala
			180					185					190	
Val	Ala	Glu	Arg	Arg	Ser	Arg	Ile	Asn	Leu	Thr	Val	Leu	Glu	Asp
		195					200					205		
His	Gly	Asp	Gln	Phe	Leu	Lys	Ala	Ile	Asp	Ile	Val	Leu	Glu	Ala
	210					215				220				
Ser	Leu	His	Ile	Lys	Arg	Phe	Ala	Asp	Leu	Ala	Arg	Glu	Met	Ala
225					230				235					240
Ser	Glu	Thr	Arg	Glu	Ser	Arg	Arg	Asp	Glu	Leu	Leu	Ala	Met	Ala
			245						250					255
Asn	Cys	Asp	Val	Ile	Ala	His	Glu	Pro	Pro	Lys	Thr	Phe	Trp	Gln
			260				265						270	
Leu	Gln	Leu	Cys	Tyr	Tyr	Ile	Gln	Leu	Ile	Leu	Gln	Ile	Glu	Ser
		275					280					285		
Gly	His	Ser	Val	Ser	Phe	Ala	Arg	Met	Asp	Gln	Tyr	Leu	Tyr	Pro
	290				295					300				
Tyr	Arg	Arg	Asp	Val	Glu	Leu	Gly	Gln	Ser	Leu	Asp	Arg	Glu	His
305					310				315					320
Ile	Glu	Leu	Leu	His	Ser	Cys	Trp	Leu	Lys	Leu	Leu	Glu	Val	Asn
			325					330						335
Ile	Arg	Ser	Gly	Ser	His	Ser	Lys	Ala	Ser	Gly	Gly	Gln	Pro	Ala
			340				345						350	
Ser	Glu	Arg	His	His	Arg	Arg	Pro	Glu	Ala	Gly	Gln	Arg	Arg	Ala
		355					360					365		
Gly	Arg	Gly	Gln	Pro	Ala	Leu	Leu	Arg	Asp	Ser	Gly	Ile	Leu	Arg
	370					375					380			
Pro	Ala	Phe	His	Pro	Ala									
385					390									

<210> 8245

<211> 293

<212> PRT

<213> Enterobacter cloacae

<400> 8245

Ile	Cys	Ala	Pro	Arg	His	Leu	Val	Ile	Arg	Met	Phe	Gln	Asn	Ala	Val
1				5				10						15	
Thr	Gln	Glu	His	Ser	Met	Thr	Val	Lys	Val	Ile	Val	Thr	Asp	Met	Asp
			20					25					30		
Gly	Thr	Phe	Leu	Asp	Asp	Ala	Lys	Gln	Tyr	Asp	Arg	Asp	Arg	Phe	Gln
		35					40					45			
Ala	Gln	Phe	Lys	Gln	Leu	Lys	Ala	Arg	Asn	Ile	Glu	Phe	Val	Val	Ala
	50					55					60				
Ser	Gly	Asn	Gln	Tyr	Tyr	Gln	Leu	Ile	Ser	Phe	Phe	Pro	Glu	Leu	Lys
65					70				75						80
Asp	Gln	Ile	Ser	Phe	Val	Ala	Glu	Asn	Gly	Ala	Leu	Val	Phe	Asp	His
				85				90						95	
Gly	Glu	Gln	Ile	Phe	His	Gly	Glu	Leu	Thr	Arg	His	Glu	Ser	Gln	Ile
		100					105						110		
Val	Ile	Gly	Glu	Leu	Leu	Lys	Asp	Lys	Gly	Leu	Asn	Phe	Val	Ala	Cys
		115					120					125			
Gly	Leu	Glu	Ser	Ala	Tyr	Val	Ser	Asp	Lys	Ala	Pro	Asp	Ala	Phe	Val
	130					135					140				
Ala	Leu	Met	Ser	Lys	His	Tyr	His	Arg	Leu	Lys	Arg	Ile	Ser	Asp	Tyr
145					150					155					160
Arg	Asp	Ile	Asp	Asp	Val	Leu	Phe	Lys	Phe	Ser	Leu	Asn	Leu	Pro	Asp
			165						170					175	
Ser	Asp	Ile	Pro	Asn	Leu	Val	Asp	Lys	Leu	His	Val	Ser	Leu	Asp	Gly

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<210> 8246
<211> 449
<212> PRT
<213> Enterobacter cloacae
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<400>	8246														
His	Leu	Asn	Leu	Arg	Pro	Leu	Thr	Val	Arg	Leu	Val	Glu	Ser	Lys	Met
1				5					10					15	
Ser	Gln	Asp	Ile	Asn	Asn	Thr	Ile	Ala	Thr	Ser	Lys	Thr	Arg	Arg	Val
			20					25					30		
Ile	Lys	Asn	Leu	Arg	Trp	Tyr	Val	Leu	Val	Leu	Phe	Leu	Leu	Gly	Val
		35					40					45			
Thr	Val	Asn	Tyr	Ile	Thr	Arg	Asn	Ser	Leu	Gly	Ile	Leu	Ala	Pro	Glu
	50					55					60				
Leu	Lys	Glu	Ser	Leu	Gly	Ile	Thr	Thr	Glu	Gln	Tyr	Ser	Trp	Ile	Val
65					70					75					80
Gly	Ala	Phe	Gln	Ile	Ala	Tyr	Thr	Ile	Phe	Gln	Pro	Leu	Cys	Gly	Trp
				85					90					95	
Leu	Ile	Asp	Val	Ile	Gly	Leu	Lys	Ile	Gly	Phe	Met	Val	Cys	Ala	Gly
			100					105					110		
Ile	Trp	Ala	Leu	Met	Cys	Ile	Phe	His	Ala	Gly	Ala	Gly	Ser	Trp	Leu
		115					120					125			
His	Leu	Ala	Ile	Leu	Arg	Phe	Phe	Met	Gly	Ala	Ser	Glu	Ala	Ala	Ala
	130					135					140				
Thr	Pro	Ala	Asn	Ala	Lys	Thr	Ile	Gly	Glu	Trp	Phe	Pro	Lys	Ser	Glu
145					150					155					160
Arg	Pro	Val	Ala	Ala	Gly	Trp	Ala	Gly	Val	Gly	Phe	Ser	Ile	Gly	Ala
				165					170					175	
Met	Leu	Ala	Pro	Pro	Ile	Ile	Tyr	Phe	Ala	His	Ala	Ser	Phe	Gly	Trp
			180					185					190		
Gln	Gly	Ala	Phe	Met	Phe	Thr	Gly	Val	Leu	Ala	Leu	Leu	Trp	Val	Ile
		195					200					205			
Leu	Trp	Trp	Ala	Phe	Tyr	His	Asn	Pro	Glu	Gln	His	Pro	Asn	Leu	Ser
	210					215					220				
Lys	Asp	Glu	Leu	Ala	Phe	Ile	Lys	Gln	Asp	Asn	Glu	Pro	Ala	Pro	Val
225					230					235					240
Lys	Leu	Pro	Phe	Leu	Thr	Ala	Leu	Lys	Thr	Val	Ser	Lys	Asn	Lys	Arg
				245					250					255	
Phe	Tyr	Gly	Ile	Ala	Ile	Pro	Ala	Phe	Met	Ala	Glu	Pro	Ala	Trp	Ala
			260					265					270		
Val	Leu	Ser	Phe	Trp	Val	Pro	Leu	Tyr	Leu	Ala	Lys	Glu	His	Gly	Met
		275					280					285			
Asp	Leu	Lys	Gln	Ile	Ala	Met	Phe	Ala	Trp	Leu	Pro	Phe	Leu	Ala	Ala
	290					295					300				
Asp	Leu	Gly	Ser	Val	Ala	Ser	Gly	Tyr	Leu	Thr	Arg	Leu	Tyr	Thr	Arg

305					310				315					320	
Leu	Phe	Gly	Cys	Ser	Arg	Val	Asn	Ser	Val	Val	Ala	Ser	Ser	Val	Thr
				325					330					335	
Gly	Ala	Phe	Leu	Met	Ile	Ser	Leu	Ala	Ile	Val	Ala	Ile	Thr	Arg	Asp
			340					345					350		
Pro	Tyr	Ile	Thr	Ile	Val	Leu	Ile	Ser	Ile	Gly	Gly	Phe	Gly	His	Gln
		355					360					365			
Ile	Ile	Ser	Cys	Met	Leu	Ser	Ala	Leu	Val	Val	Glu	Ser	Phe	Asp	Lys
		370				375					380				
Gly	Gln	Met	Ala	Thr	Val	Asn	Gly	Met	Arg	Gly	Ser	Ala	Ala	Trp	Ile
385					390					395					400
Ala	Ser	Phe	Leu	Phe	Ser	Leu	Leu	Ile	Gly	Val	Thr	Ala	Asp	Lys	Ile
				405					410					415	
Gly	Phe	Asn	Pro	Leu	Phe	Ile	Ala	Met	Gly	Phe	Phe	Asp	Leu	Ile	Gly
			420				425						430		
Ala	Leu	Phe	Leu	Val	Ala	Phe	Ile	Ala	Glu	Arg	Arg	Ala	Lys	Arg	Ala
		435					440					445			

<210> 8247

<211> 412

<212> PRT

<213> Enterobacter cloacae

<400> 8247

Met	Glu	Leu	Lys	Gly	Ala	Ser	Gly	Trp	Cys	Ser	Ala	Ala	Cys	Ser	Pro
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His	Pro	Asn	Pro	Leu	Pro	Gln	Gly	Glu	Gly	Ile	Lys	Cys	Arg	Pro	Gly
			20					25					30		
Lys	Ala	Lys	Pro	Pro	Pro	Gly	Tyr	Phe	Leu	Thr	Leu	Asp	Thr	Phe	Thr
		35					40					45			
Ala	Gln	Val	Ile	Phe	Val	Val	Thr	Gly	Glu	Val	His	His	Ala	Leu	Trp
		50				55					60				
Arg	Asn	Phe	Asp	His	Ala	Gly	Arg	Gln	Arg	Ala	Asp	Glu	Leu	Thr	Val
65				70						75					80
Val	Arg	Asp	Glu	Asp	Gln	Gly	Ala	Leu	Ile	His	Leu	Gln	Arg	His	Val
				85					90					95	
Gln	Gly	Phe	Asp	Arg	Phe	His	Ile	Gln	Val	Val	Ser	Arg	Phe	Val	His
			100					105					110		
His	Gln	Asn	Ile	Arg	Phe	Phe	His	His	Gln	Leu	Ala	Glu	Gln	His	Thr
		115					120					125			
Ala	Leu	Phe	Thr	Thr	Gly	Glu	His	Phe	Gly	Gly	Leu	Phe	Asp	Val	Val
		130				135					140				
Leu	Ala	Glu	Gln	Gln	Thr	Pro	Gln	Asn	Ala	Ala	Tyr	Arg	Leu	Leu	Ile
145					150					155					160
Val	Ala	Phe	Leu	Leu	Pro	Leu	Ala	His	Pro	Val	Glu	Asp	Ser	Gln	Ile
				165					170					175	
Val	Phe	Glu	Phe	Ile	Phe	Met	Val	Leu	Arg	Val	Val	Thr	Asn	Leu	Arg
		180						185					190		
Val	Phe	Arg	Pro	Phe	His	Gly	Ser	Val	Val	Arg	Leu	Gln	Phe	Thr	His
		195					200					205			
Gln	Gly	Phe	Gln	His	Ser	Gly	Phe	Thr	His	Ala	Val	Gly	Ala	Glu	Asp
		210				215					220				
Gly	Asn	Leu	Leu	Ala	His	Phe	Gln	Gln	Gln	Val	Glu	Val	Phe	Glu	Gln
225					230					235					240
Arg	Ala	Phe	Ile	Glu	Ala	Phe	Gly	Glu	Ser	Phe	His	Phe	Gln	Arg	Val
				245					250					255	
Thr	Glu	Gln	Leu	Leu	Val	Leu	Leu	Glu	Ala	Asp	Glu	Arg	Val	Leu	Thr
			260					265					270		
Ala	Gly	Gly	Phe	Asn	Leu	Phe	Gln	Leu	Asp	Phe	Val	Asp	Leu	Thr	Arg

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<210> 8248
<211> 230
<212> PRT
<213> Enterobacter cloacae
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<210> 8249
<211> 429
<212> PRT
<213> Enterobacter cloacae
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<400> 8249

Pro His Phe Ser Ala Ile Met Ser Ala Phe Val Val Thr Pro Gln Glu
 1 5 10 15
 Pro Thr Met Asp Phe Thr Ala Gly Leu Met Pro Leu Glu Thr Ala Leu
 20 25 30
 Ser Gln Met Leu Asp Arg Ile Thr Pro Leu His Asp Val Glu Thr Leu
 35 40 45
 Pro Leu Val Arg Cys Phe Gly Arg Ile Ala Ala Arg Asp Ile Val Ser
 50 55 60
 Pro Leu Asn Val Pro Gly Phe Asp Asn Ala Ala Met Asp Gly Tyr Ala
 65 70 75 80
 Val Arg Leu Ala Asp Leu Gln Thr Gly Gln Pro Leu Pro Val Ala Gly
 85 90 95
 Lys Ala Phe Ala Gly Gln Pro Phe Asn Gly Glu Trp Pro Ala Asp Thr
 100 105 110
 Cys Val Arg Ile Met Thr Gly Ala Pro Val Pro Thr Gly Cys Glu Ala
 115 120 125
 Val Val Met Gln Glu Glu Thr Glu Gln Thr Asp Asp Gly Val Arg Phe
 130 135 140
 Thr Ala Ser Val Lys Ala Gly Gln Asn Ile Arg His Ile Gly Glu Asp
 145 150 155 160
 Ile Thr Leu Gly Ala Thr Val Phe Ala Ala Gly Gln Lys Leu Thr Val
 165 170 175
 Ala Glu Leu Pro Val Leu Ala Ser Leu Gly Ile Ala Glu Ile Asp Val
 180 185 190
 Val Arg Lys Val Arg Val Ala Val Phe Ser Thr Gly Asp Glu Leu Gln
 195 200 205
 Leu Pro Gly Gln Pro Leu Asn Glu Gly Gln Ile Tyr Asp Thr Asn Arg
 210 215 220
 Leu Ala Val His Leu Met Leu Glu Gln Leu Gly Cys Glu Val Ile Asn
 225 230 235 240
 Leu Gly Ile Ile Pro Asp Asp Pro Gln Lys Leu Arg Ala Ala Phe Ile
 245 250 255
 Asp Ala Asp Ala Ser Ala Asp Val Val Ile Ser Ser Gly Gly Val Ser
 260 265 270
 Val Gly Glu Ala Asp Tyr Thr Lys Asn Leu Leu Glu Glu Leu Gly Glu
 275 280 285
 Ile Ala Phe Trp Lys Leu Ala Ile Lys Pro Gly Lys Pro Phe Ala Phe
 290 295 300
 Gly Lys Leu Pro His Ser Trp Phe Cys Gly Leu Pro Gly Asn Pro Val
 305 310 315 320
 Ser Ala Ala Leu Thr Phe Tyr Gln Leu Val Ile Pro Leu Leu Ala Lys
 325 330 335
 Leu Ser Gly Asn Asn Ala Ser Pro Leu Pro Glu Arg Val Arg Val Arg
 340 345 350
 Ala Ala Thr Arg Leu Lys Lys Ser Pro Gly Arg Leu Asp Phe Gln Arg
 355 360 365
 Gly Ile Leu Ala Arg Asn Ala Asp Gly Glu Leu Glu Val Ser Thr Thr
 370 375 380
 Gly His Gln Gly Ser His Ile Phe Ser Ser Phe Ser Gln Gly Asn Cys
 385 390 395 400
 Phe Ile Val Leu Glu Arg Asp Arg Gly His Val Glu Ala Gly Glu Trp
 405 410 415
 Val Glu Val Glu Arg Phe Asn His Leu Phe Gly Gly
 420 425

<210> 8250

<211> 485

<212> PRT

<213> Enterobacter cloacae

<400> 8250

485

<210> 8251
 <211> 431
 <212> PRT
 <213> Enterobacter cloacae

<400> 8251

Thr	Phe	Leu	Leu	Ser	Asn	Glu	Arg	Cys	Glu	Ala	Val	Met	Thr	Phe	Thr
1				5					10					15	
Ser	Glu	Thr	Leu	Pro	Ala	Asp	His	Lys	Ala	Ala	Ile	Arg	Gln	Leu	Lys
			20					25					30		
Arg	Glu	Leu	Arg	Ala	Gln	Ile	Gly	Asp	Val	Gln	Ala	Val	Phe	Asp	Lys
		35					40					45			
Leu	Ser	Asp	Ser	Ile	Ala	Thr	Arg	Val	Ala	Glu	Ile	Asn	Ala	Leu	Lys
	50					55					60				
Asn	Lys	Gly	Glu	Ser	Val	Trp	Pro	Val	Ile	Pro	Phe	Asn	Asp	Val	Lys
65					70					75				80	
Asn	Gly	Thr	Ile	Thr	Asp	Ala	Gln	Arg	Glu	Ala	Val	Lys	Arg	Arg	Gly
				85					90					95	
Cys	Ala	Val	Ile	Lys	Gly	His	Phe	Pro	Arg	Glu	Gln	Ala	Leu	Ala	Trp
			100					105						110	
Asp	Gln	Ser	Met	Leu	Asp	Tyr	Leu	Asp	Leu	Asn	Lys	Phe	Asp	Glu	Val
		115				120						125			
Tyr	Lys	Gly	Pro	Gly	Asp	Asn	Phe	Phe	Gly	Thr	Leu	Thr	Ala	Ser	Arg
	130					135					140				
Pro	Glu	Ile	Tyr	Pro	Ile	Tyr	Trp	Ser	Gln	Ala	Gln	Met	Gln	Ala	Arg
145					150					155					160
Gln	Ser	Glu	Glu	Met	Ala	Gln	Val	Gln	Ser	Phe	Leu	Asn	Arg	Leu	Trp
				165					170					175	
Thr	Phe	Glu	Ser	Asn	Gly	Lys	Gln	Trp	Phe	Asp	Pro	Asp	Val	Ser	Val
			180					185					190		
Ile	Tyr	Pro	Asp	Arg	Ile	Arg	Arg	Arg	Pro	Pro	Gly	Thr	Thr	Ser	Lys
	195					200						205			
Gly	Leu	Gly	Ala	His	Thr	Asp	Ser	Gly	Ala	Leu	Glu	Arg	Trp	Leu	Leu
	210					215					220				
Pro	Ala	Tyr	Gln	Gln	Val	Phe	Ala	Arg	Val	Phe	Asp	Gly	Asn	Val	Glu
225					230					235					240
Lys	Tyr	Asp	Pro	Trp	Asn	Ala	Ala	His	Arg	Thr	Glu	Val	Glu	Glu	Tyr
				245					250					255	
Thr	Val	Asp	Asn	Thr	Thr	Lys	Cys	Ser	Val	Phe	Arg	Thr	Phe	Gln	Gly
			260					265					270		
Trp	Thr	Ala	Leu	Ser	Asp	Met	Ile	Pro	Gly	Gln	Gly	Leu	Leu	His	Val
		275				280						285			
Val	Pro	Ile	Pro	Glu	Ala	Met	Ala	Tyr	Ile	Leu	Leu	Arg	Pro	Leu	Leu
	290					295					300				
Asp	Asp	Val	Pro	Glu	Asp	Glu	Leu	Cys	Gly	Val	Ala	Pro	Gly	Arg	Val
305					310					315					320
Leu	Pro	Val	Ser	Glu	Lys	Trp	His	Pro	Leu	Leu	Ile	Glu	Ala	Leu	Thr
				325					330					335	
Ser	Ile	Pro	Ala	Leu	Glu	Ala	Gly	Asp	Ser	Val	Trp	Trp	His	Cys	Asp
			340					345					350		
Val	Ile	His	Ser	Val	Ala	Pro	Val	Asp	Asn	Gln	Gln	Gly	Trp	Gly	Asn
		355						360					365		
Val	Met	Tyr	Ile	Pro	Ala	Ala	Pro	Met	Cys	Glu	Lys	Asn	Leu	Ala	Tyr
	370					375					380				
Ala	Lys	Lys	Val	Lys	Glu	Ala	Leu	Glu	Thr	Gly	Ala	Ser	Pro	Gly	Asp
385					390					395					400
Phe	Pro	Arg	Glu	Asp	Tyr	Glu	Lys	Thr	Trp	Gln	Asp	Arg	Phe	Thr	Val
				405					410					415	
Asn	Asp	Leu	Asn	Ile	His	Gly	Lys	Arg	Ala	Leu	Gly	Met	Val		

420

425

430

<210> 8252

<211> 629

<212> PRT

<213> Enterobacter cloacae

<400> 8252

Ile	Arg	Gly	His	Cys	Val	Pro	His	Arg	Glu	Glu	Leu	Asp	Asn	Cys	Glu
1				5					10					15	
Val	Leu	Ala	Val	His	Gln	Leu	Asn	Ile	Ala	Phe	Gln	Glu	Glu	Arg	Gln
			20					25					30		
Phe	Ile	Pro	Ala	Val	Gln	Asn	Leu	Ser	Phe	Ser	Leu	Arg	Arg	Gly	Glu
		35					40					45			
Thr	Leu	Ala	Ile	Val	Gly	Glu	Ser	Gly	Ser	Gly	Lys	Ser	Val	Thr	Ala
	50					55					60				
Leu	Ala	Leu	Met	Arg	Leu	Leu	Glu	Gln	Thr	Gly	Gly	Gln	Val	Thr	Ser
65					70					75				80	
Glu	Arg	Met	Leu	Leu	Arg	Arg	Arg	Asn	Arg	Gln	Val	Ile	Asp	Leu	Asn
				85				90						95	
Glu	Leu	Ser	Ala	Ser	Arg	Met	Gln	Gly	Val	Arg	Gly	Ala	Asp	Ile	Ala
			100					105					110		
Met	Ile	Phe	Gln	Glu	Pro	Met	Thr	Ser	Leu	Asn	Pro	Val	Phe	Pro	Val
		115					120					125			
Gly	Glu	Gln	Ile	Ala	Glu	Ser	Ile	Arg	Leu	His	Gln	Gly	Leu	Ser	Gly
	130					135					140				
Asp	Glu	Ala	Leu	Asn	Glu	Ala	Lys	Arg	Met	Leu	Glu	Leu	Val	Arg	Ile
145					150					155					160
Pro	Glu	Ala	His	Ala	Ile	Leu	Ser	Arg	Tyr	Pro	His	Gln	Leu	Ser	Gly
			165					170						175	
Gly	Met	Arg	Gln	Arg	Val	Met	Ile	Ala	Met	Ala	Leu	Ser	Cys	Arg	Pro
			180					185					190		
Ala	Val	Leu	Ile	Ala	Asp	Glu	Pro	Thr	Thr	Ala	Leu	Asp	Val	Thr	Ile
		195					200					205			
Gln	Ala	Gln	Ile	Leu	Gln	Leu	Ile	Lys	Val	Leu	Gln	Gln	Glu	Met	Glu
	210					215					220				
Met	Gly	Val	Ile	Phe	Ile	Thr	His	Asp	Met	Gly	Val	Val	Ala	Asp	Ile
225					230					235					240
Ala	Asp	Arg	Val	Leu	Val	Met	His	Gln	Gly	Asn	Ala	Val	Glu	Thr	Gly
			245					250						255	
Thr	Val	Glu	Gln	Val	Phe	His	Ala	Pro	Val	His	Ser	Tyr	Thr	Lys	Ala
		260						265					270		
Leu	Leu	Ala	Ala	Val	Pro	Arg	Leu	Gly	Ala	Met	Asn	Gly	Ser	Asp	Phe
	275						280					285			
Pro	Arg	Arg	Phe	Pro	Leu	Ile	Ser	Gln	Thr	Glu	Gln	Gly	Lys	Gln	Glu
	290				295						300				
Asp	Glu	Thr	Glu	Gln	Asp	Thr	Val	Val	Pro	Gly	Arg	Pro	Ile	Leu	Glu
305					310					315					320
Val	Arg	Asp	Leu	Val	Thr	Arg	Phe	Pro	Leu	Arg	Ser	Gly	Ile	Leu	Asn
			325					330						335	
Arg	Val	Lys	Arg	Glu	Val	His	Ala	Val	Glu	Asn	Val	Ser	Phe	Asp	Leu
			340					345					350		
Trp	Pro	Gly	Glu	Thr	Leu	Ala	Leu	Val	Gly	Glu	Ser	Gly	Cys	Gly	Lys
		355				360						365			
Ser	Thr	Thr	Gly	Arg	Ala	Leu	Leu	Arg	Leu	Val	Ala	Ser	Gln	Glu	Gly
	370					375					380				
Ser	Ile	Thr	Phe	Asn	Gly	Glu	Arg	Ile	Asp	Thr	Leu	Pro	Asn	Ser	Lys
385					390					395					400
Leu	Gln	Ala	Val	Arg	Arg	Asp	Ile	Gln	Phe	Ile	Phe	Gln	Asp	Pro	Tyr
			405					410					415		
Ala	Ser	Leu	Asp	Pro	Arg	His	Thr	Val	Gly	Tyr	Ser	Ile	Met	Glu	Pro

			420					425				430			
Leu	Arg	Val	His	Asn	Leu	Leu	Asp	Gly	Glu	Asp	Ala	Gln	Arg	Arg	Val
		435					440					445			
Ala	Trp	Leu	Leu	Glu	Arg	Val	Gly	Leu	Lys	Pro	Glu	His	Ala	Trp	Arg
		450					455					460			
Tyr	Pro	His	Glu	Phe	Ser	Gly	Gly	Gln	Arg	Gln	Arg	Ile	Cys	Ile	Ala
465					470					475					480
Arg	Ala	Leu	Ala	Leu	Asn	Pro	Lys	Val	Val	Ile	Ala	Asp	Glu	Ser	Val
				485					490					495	
Ser	Ala	Leu	Asp	Val	Ser	Ile	Arg	Ala	Gln	Ile	Ile	Asn	Leu	Leu	Leu
			500					505					510		
Asp	Leu	Gln	Arg	Asp	Leu	Gly	Ile	Ala	Phe	Leu	Phe	Ile	Ser	His	Asp
		515					520					525			
Met	Ala	Val	Val	Glu	Arg	Ile	Ser	His	Arg	Val	Ala	Val	Met	Tyr	Met
		530				535						540			
Gly	Gln	Ile	Val	Glu	Ile	Gly	Pro	Arg	Arg	Ala	Val	Phe	Glu	Asn	Pro
545					550					555					560
Gln	His	Pro	Tyr	Thr	Arg	Lys	Leu	Met	Ala	Ala	Val	Pro	Val	Ala	Asp
				565					570					575	
Pro	Glu	His	Arg	His	Ala	Gln	Arg	Val	Leu	Leu	Gln	Asp	Glu	Met	Pro
			580					585					590		
Ser	Asn	Ile	Arg	Lys	Arg	Gly	Glu	Thr	Leu	Glu	Arg	Val	Ala	Leu	Arg
		595					600					605			
Glu	Val	Gly	Pro	Gly	His	Phe	Val	Ala	Pro	Pro	Arg	Gln	Gly	Asn	Ala
	610					615					620				
Phe	Ser	Arg	Leu												
625															

<210> 8253

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 8253

Gly	Asn	Met	Ala	Asp	Arg	Gly	Gly	Asn	Ser	Met	Ser	Val	Asp	Arg	Leu
1				5				10					15		
Lys	Arg	Asp	Leu	Leu	Asn	Lys	Leu	Ile	Asn	Ala	Arg	Ile	Asp	Leu	Ala
			20					25					30		
Ala	Tyr	Leu	Gln	Leu	Arg	Lys	Ala	Lys	Gly	Tyr	Met	Ser	Val	Ser	Glu
		35					40					45			
Ser	Glu	Asn	Leu	Arg	Asp	Asn	Phe	Phe	Glu	Leu	Cys	Asn	Phe	Met	Arg
	50					55					60				
Glu	Lys	Ala	Pro	Ile	Leu	Lys	Ala	His	Tyr	Ala	Glu	Ser	Glu	Leu	Val
65					70				75						80
Ala	Leu	Arg	Arg	Ala	Ala	Glu	Val	Leu	Ser	Ile	Ala	Gly	Val	Cys	Leu
				85					90					95	
Met	Asn	Gly	Arg	His	Asp	Cys	Pro	Asn	Phe	Ile	Ala	Val	Asn	Ala	Asp
		100						105					110		
Lys	Leu	Glu	Asn	Cys	Leu	Thr	Thr	Leu	Ala	Leu	Cys	Ile	Met	Cys	Leu
		115					120					125			
Asn	Lys	Pro	Glu	Thr	Leu	Ala	Arg	His							
	130					135									

<210> 8254

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 8254

Val	Gln	Ala	Lys	Phe	Glu	Gly	Asp	Ile	Met	Glu	Leu	Tyr	Leu	Asp	Thr
1				5					10					15	

Ser Asp Val Ala Ala Val Lys Lys Leu Ala Arg Ile Phe Pro Leu Ala
 20 25 30
 Gly Val Thr Thr Asn Pro Ser Ile Val Ala Ala Gly Lys Thr Pro Leu
 35 40 45
 Glu Glu Leu Leu Pro Ala Leu His Asp Ala Leu Gly Gly Lys Gly Arg
 50 55 60
 Leu Phe Ala Gln Val Met Ala Lys Thr Ala Glu Gly Met Val Glu Asp
 65 70 75 80
 Ala Arg Lys Leu Arg Ala Ile Ile Asn Asp Leu Val Val Lys Val Pro
 85 90 95
 Val Thr Ala Glu Gly Leu Ala Ala Ile Lys Met Leu Lys Ala Glu Gly
 100 105 110
 Ile Pro Thr Leu Gly Thr Ala Val Tyr Gly Ala Ala Gln Gly Met Leu
 115 120 125
 Ser Ala Leu Ala Gly Ala Glu Tyr Val Ala Pro Tyr Val Asn Arg Val
 130 135 140
 Asp Ala Gln Gly Gly Asp Gly Ile Gln Thr Val Val Glu Met Gln Gln
 145 150 155 160
 Leu Leu Thr Leu His Ala Pro Gln Ser Lys Val Leu Ala Ala Ser Phe
 165 170 175
 Lys Thr Pro Arg Gln Ala Leu Asp Cys Leu Leu Ala Gly Cys Glu Ser
 180 185 190
 Ile Thr Leu Pro Leu Asp Val Ala Gln Gln Phe Ile Thr Ser Pro Ala
 195 200 205
 Val Asp Ala Ala Ile Val Lys Phe Glu Gln Asp Trp Gln Gly Ala Phe
 210 215 220
 Gly Arg Thr Ser Ile
 225 230

<210> 8255

<211> 315

<212> PRT

<213> Enterobacter cloacae

<400> 8255

Cys Glu Met Ser Lys Ala Val Ile Ala Ile His Gly Gly Ala Gly Ala
 1 5 10 15
 Ile Thr Arg Ala Gln Leu Ser Pro Glu Gln Glu Lys Arg Tyr Ile Asp
 20 25 30
 Ala Leu Asn Ala Ile Val Glu Thr Gly Gln Arg Met Leu Glu Ala Gly
 35 40 45
 Asp Ser Ala Leu Asp Val Val Thr Glu Ala Val Arg Leu Leu Glu Glu
 50 55 60
 Cys Pro Leu Phe Asn Ala Gly Ile Gly Ser Val Phe Thr Arg Asp Glu
 65 70 75 80
 Thr His Glu Leu Asp Ala Cys Val Met Asp Gly Val Thr Leu Lys Ala
 85 90 95
 Gly Ala Val Ala Gly Val Ser Arg Leu Arg Asn Pro Val Leu Ala Ala
 100 105 110
 Arg Leu Val Met Glu Gln Ser Pro His Val Leu Leu Ala Gly Ala Gly
 115 120 125
 Ala Glu Lys Phe Ala Val Glu His Gly Met Asp Thr Val Ser Pro Glu
 130 135 140
 Leu Phe Ser Thr Glu Glu Arg Tyr Arg Gln Leu Leu Glu Ala Arg Thr
 145 150 155 160
 Ala Gly Met Thr Gln Leu Asp His Ala Ala Pro Leu Asp Glu Arg Ser
 165 170 175
 Lys Met Gly Thr Val Gly Ala Val Ala Leu Asp Lys Ala Gly Asn Leu
 180 185 190
 Ala Ala Ala Thr Ser Thr Gly Gly Met Thr Asn Lys Leu Pro Gly Arg
 195 200 205

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<210> 8256
<211> 314
<212> PRT
<213> Enterobacter cloacae
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<400> 8256															
Arg 1	Gly	Phe	Lys	Ile 5	Lys	Leu	Met	Leu	Asn 10	Tyr	Val	Cys	Lys	Arg 15	Leu
Leu	Gly	Leu	Ile 20	Pro	Thr	Leu	Leu	Ile 25	Val	Ala	Val	Leu	Val 30	Phe	Leu
Phe	Val	His 35	Met	Leu	Pro	Gly	Asp 40	Pro	Ala	Arg	Leu	Ile 45	Ala	Gly	Pro
Glu	Ala	Asp 50	Ala	Thr	Val	Ile 55	Glu	Leu	Val	Arg	Lys 60	Gln	Leu	Gly	Leu
Asp 65	Gln	Pro	Leu	Tyr 70	Arg	Gln	Phe	Leu	Arg	Tyr 75	Ile	Gly	Asn	Val 80	Leu
Gln	Gly	Asp	Phe	Gly 85	Ile	Ser	Met	Val	Ser 90	Arg	Arg	Pro	Val 95	Ser	Glu
Glu	Ile	Ala	Ser	Arg 100	Phe	Met	Pro	Thr 105	Phe	Trp	Leu	Thr 110	Ile	Ala	Ser
Met	Ser	Trp 115	Ala	Val	Val	Phe	Gly 120	Leu	Gly	Ala	Gly	Ile 125	Val	Ala	Ala
Val	Trp 130	Arg	Asn	Arg	Trp	Pro 135	Asp	Lys	Leu	Gly	Met 140	Ala	Leu	Ala	Val
Thr 145	Gly	Ile	Ser	Phe 150	Pro	Ala	Phe	Ala	Leu	Gly 155	Met	Leu	Leu	Met	Gln 160
Ile	Phe	Ser	Val	Glu 165	Leu	Gly	Trp	Leu	Pro 170	Thr	Val	Gly	Ala	Asp 175	Thr
Trp	Lys	His 180	Tyr	Ile	Leu	Pro	Ser	Met 185	Thr	Leu	Gly	Ala 190	Ala	Val	Ala
Ala	Val	Met 195	Ala	Arg	Phe	Thr	Arg 200	Ala	Ser	Phe	Val	Asp 205	Val	Leu	Ser
Glu	Asp 210	Tyr	Ile	Arg	Thr	Ala 215	Arg	Ala	Lys	Gly	Val 220	Ser	Glu	Lys	Trp
Val 225	Ile	Leu	Lys	His 230	Gly	Phe	Arg	Asn	Ala	Met 235	Ile	Pro	Val	Val	Thr 240
Met	Met	Gly	Leu	Gln 245	Phe	Gly	Phe	Leu	Leu 250	Gly	Gly	Ser	Ile	Val 255	Val
Glu	Lys	Val	Phe 260	Asn	Trp	Pro	Gly	Leu 265	Gly	Arg	Leu	Leu 270	Val	Asp	Ser
Val	Asp	Met 275	Arg	Asp	Tyr	Pro	Val 280	Ile	Gln	Ala	Glu	Val 285	Leu	Leu	Phe
Ser	Leu 290	Glu	Phe	Ile	Leu	Ile 295	Asn	Leu	Val	Val	Asp 300	Val	Leu	Tyr	Ala
Ala 305	Ile	Asn	Pro	Ala	Ile 310	Arg	Tyr	Lys							

<210> 8257
 <211> 384
 <212> PRT
 <213> Enterobacter cloacae

<400> 8257
 Ser Leu Ser His Met Ser Ile Lys Glu Cys Val Met Pro Arg Ser Ser
 1 5 10 15
 Leu Ile Phe Leu Pro Val Leu Leu Phe Pro Leu Ser Leu Leu Ala Ala
 20 25 30
 Pro Glu Thr Val Lys Val Asp Val Leu Gln Thr Lys Leu Asp His Pro
 35 40 45
 Trp Ser Leu Ala Phe Leu Pro Asp Asn Lys Gly Leu Leu Ile Thr Leu
 50 55 60
 Lys Asp Gly Gln Leu Lys His Trp Gln Ala Gly Lys Gly Leu Ser Asp
 65 70 75 80
 Pro Ile Val Gly Val Pro Lys Val Trp Ala Ser Gly Gln Gly Gly Leu
 85 90 95
 Leu Asp Val Ala Leu Ala Pro Asp Phe Ala Gln Ser Arg Arg Val Trp
 100 105 110
 Leu Ser Phe Ala Glu Ala Gly Asn Asp Gly Lys Ala Gly Thr Ala Val
 115 120 125
 Gly Tyr Gly Arg Leu Ser Asp Asp Leu Ser Arg Ile Glu Gly Phe Gln
 130 135 140
 Val Val Phe Arg Gln Met Pro Lys Leu Ser Thr Gly Asn His Phe Gly
 145 150 155 160
 Gly Arg Leu Val Phe Asp Gly Lys Gly His Leu Phe Ile Gly Leu Gly
 165 170 175
 Glu Asn Asn Gln Arg Pro Thr Ala Gln Asp Leu Asp Lys Leu Gln Gly
 180 185 190
 Lys Val Val Arg Leu Thr Glu Asp Gly Lys Val Pro Pro Asp Asn Pro
 195 200 205
 Phe Val Asn Thr Ala Gly Ala Arg Pro Glu Ile Trp Ser Tyr Gly Ile
 210 215 220
 Arg Asn Pro Gln Gly Met Ala Met Asn Pro Trp Ser Asp Thr Leu Trp
 225 230 235 240
 Leu Asn Glu His Gly Pro Arg Gly Gly Asp Glu Ile Asn Ile Pro Glu
 245 250 255
 Lys Gly Lys Asn Tyr Gly Trp Pro Leu Ala Thr His Gly Ile Asn Tyr
 260 265 270
 Ser Gly Leu Lys Ile Pro Glu Ala Lys Gly Glu His Val Glu Gly Thr
 275 280 285
 Glu Lys Pro Leu Phe Val Trp Lys Val Ser Pro Ala Val Ser Gly Met
 290 295 300
 Ala Phe Tyr Asn Ser Asp Val Phe Pro Gln Trp Lys Asn Lys Leu Phe
 305 310 315 320
 Ile Gly Ala Leu Lys Glu Lys Asp Val Ile Val Leu Ser Val Lys Gly
 325 330 335
 Asn Ser Val Thr Glu Asp Gly Arg Ile Leu Gly Asp Lys Asp Gln Arg
 340 345 350
 Ile Arg Asp Val Arg Val Gly Pro Asp Gly Tyr Leu Tyr Val Leu Thr
 355 360 365
 Asp Glu Thr Asp Gly Gln Leu Trp Lys Val Ser Pro Ser Gly Ser
 370 375 380

<210> 8258
 <211> 115
 <212> PRT
 <213> Enterobacter cloacae

<400> 8258

Cys Ala Ile Thr His Arg Phe Leu Arg His Gly Asp Cys Asp Val Ile
 1 5 10 15
 Phe Arg Met Asp Thr Arg Val Ala Phe Met Thr Gln Lys Thr Ser Ser
 20 25 30
 Leu Arg Ser Leu Ala Ala Gly Ser Ala Leu Leu Phe Leu Phe Ala Pro
 35 40 45
 Thr Leu His Ala Ala Glu Gln Thr Ala Pro Glu Ala Pro Pro Val Asp
 50 55 60
 Ala Arg Ala Trp Ile Leu Met Asp Tyr Ala Ser Gly Lys Val Leu Ala
 65 70 75 80
 Glu Gly Asn Ala Asp Glu Lys Leu Asp Pro Ala Ser Leu Thr Lys Ile
 85 90 95
 Met Thr Ser Tyr Val Val Gly Val Phe Thr His Val Gly Arg Ser Ile
 100 105 110
 Arg Asp His
 115

<210> 8259

<211> 544

<212> PRT

<213> Enterobacter cloacae

<400> 8259

Cys Arg Val Tyr His Thr Phe Arg Arg Asn Leu Ser Val Leu Val Thr
 1 5 10 15
 Ser Asn Val Thr Met Gln Phe Gly Ser Lys Pro Leu Phe Glu Asn Ile
 20 25 30
 Ser Val Lys Phe Gly Gly Gly Asn Arg Tyr Gly Leu Ile Gly Ala Asn
 35 40 45
 Gly Ser Gly Lys Ser Thr Phe Met Lys Ile Leu Gly Gly Asp Leu Glu
 50 55 60
 Pro Thr Leu Gly Asn Val Ser Leu Asp Pro Asn Glu Arg Ile Gly Lys
 65 70 75 80
 Leu Arg Gln Asp Gln Phe Ala Phe Glu Glu Phe Thr Val Leu Asp Thr
 85 90 95
 Val Ile Met Gly His Ala Glu Leu Trp Glu Val Lys Gln Glu Arg Asp
 100 105 110
 Arg Ile Tyr Gly Leu Ala Glu Met Ser Glu Glu Asp Gly Tyr Lys Val
 115 120 125
 Ala Asp Leu Glu Thr Gln Tyr Gly Glu Met Asp Gly Tyr Ser Ala Glu
 130 135 140
 Ala Arg Ala Gly Glu Leu Leu Leu Gly Val Gly Ile Pro Val Glu Gln
 145 150 155 160
 His Tyr Gly Pro Met Ser Glu Val Ala Pro Gly Trp Lys Leu Arg Val
 165 170 175
 Leu Leu Ala Gln Ala Leu Phe Ser Asn Pro Asp Ile Leu Leu Leu Asp
 180 185 190
 Glu Pro Thr Asn Asn Leu Asp Ile Asp Thr Ile Arg Trp Leu Glu Gln
 195 200 205
 Thr Leu Asn Asp Arg Asp Ser Thr Met Ile Ile Ile Ser His Asp Arg
 210 215 220
 His Phe Leu Asn Met Val Cys Thr His Met Ala Asp Leu Asp Tyr Gly
 225 230 235 240
 Glu Leu Arg Val Tyr Pro Gly Asn Tyr Asp Glu Tyr Met Thr Ala Ala
 245 250 255
 Thr Gln Ala Arg Glu Arg Leu Leu Ala Asp Asn Ala Lys Lys Lys Ala
 260 265 270
 Gln Ile Ala Asp Leu Gln Ser Phe Val Ser Arg Phe Ser Ala Asn Ala
 275 280 285
 Ser Lys Ser Arg Gln Ala Thr Ser Arg Ala Arg Gln Ile Asp Lys Ile

290		295		300
Lys Leu Glu Glu Val	Lys Ala Ser Ser Arg Gln Asn Pro Phe Ile Arg			
305	310		315	320
Phe Glu Gln Asp	Lys Leu Phe Arg Asn Ala Leu Glu Val Glu Ala			
	325		330	335
Leu Thr Lys Gly Phe Asp	Glu Gly Pro Leu Phe Lys Asn Phe Asn Leu			
	340		345	350
Leu Leu Glu Val Gly Glu Lys Ile Ala Ile Leu Gly Ala Asn Gly Val				
	355		360	365
Gly Lys Ser Thr Met Leu Lys Thr Leu Val Gly Glu Leu Gln Pro Asp				
	370		375	380
Asn Gly Thr Val Lys Trp Ser Glu Asn Ala Gln Ile Gly Tyr Tyr Ala				
385	390		395	400
Gln Asp His Glu Tyr Glu Phe Glu Asn Asp Leu Thr Val Phe Asp Trp				
	405		410	415
Met Ser Gln Trp Lys Gln Glu Gly Asp Asp Glu Gln Ala Val Arg Ser				
	420		425	430
Ile Leu Gly Arg Leu Leu Phe Ser Gln Asp Asp Ile Lys Lys Pro Ala				
	435		440	445
Lys Val Leu Ser Gly Gly Glu Lys Gly Arg Met Leu Phe Gly Lys Leu				
	450		455	460
Met Met Glu Lys Pro Asn Ile Leu Val Met Asp Glu Pro Thr Asn His				
465	470		475	480
Leu Asp Met Glu Ser Ile Glu Ser Leu Asn Met Ala Leu Glu Met Tyr				
	485		490	495
Gln Gly Thr Leu Ile Phe Val Ser His Asp Arg Glu Phe Val Ser Ser				
	500		505	510
Leu Ala Thr Arg Val Ile Glu Ile Thr Pro Glu Arg Val Val Asp Phe				
	515		520	525
Thr Gly Asn Tyr Glu Asp Tyr Leu Arg Ser Lys Gly Ile Glu Ser				
530	535		540	

<210> 8260

<211> 375

<212> PRT

<213> Enterobacter cloacae

<400> 8260

His Thr Arg Tyr Glu Asn Phe Phe Ile Ser Gln Met Glu Pro Asp His				
1	5		10	15
Lys Met Asp Lys Arg Leu Lys Ile Thr Glu Ile Ala Ala Arg Thr Gln				
	20		25	30
Leu Ser Ile Ser Thr Val Ser Arg Val Leu Ala Gly Lys Ala Asn Thr				
	35		40	45
Ser Glu Lys Ala Arg Ala Lys Val Leu Ala Cys Ala Arg Glu Leu Gly				
	50		55	60
Val Met Asp Gly Met Ala Ala Gly Arg Leu Leu Asn Ser Leu Val				
65	70		75	80
Val Phe Ala Pro Gln Arg Ala Phe Asp Glu Arg Ser Asp Ile Phe Tyr				
	85		90	95
Tyr Arg Val Ile Gln Ser Val Ser Lys Ala Leu Ala Ser His Glu Val				
	100		105	110
Arg Leu Arg Tyr Cys Ala Leu Glu Glu Asn Asp Ser Asp Ala Gln Leu				
	115		120	125
Phe Leu Ala Arg Met Asn Glu Pro Asp Thr Gln Ala Ala Ile Leu Leu				
	130		135	140
Gly Ile Asp Asp Pro His Ile His Asp Leu Ala Val Asp Val Gly Lys				
145	150		155	160
Pro Cys Met Leu Ile Asn Cys Arg Asp Arg His Met Arg Leu Pro Ala				
	165		170	175
Val Ala Pro Asp His Arg Ala Ile Gly Glu Arg Ala Ala Glu Tyr Leu				

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<210> 8261
<211> 541
<212> PRT
<213> Enterobacter cloacae
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<400> 8261															
Gly 1	Gly	Ser	Arg	Ser 5	Phe	Cys	Arg	Thr	Thr 10	Ala	Ser	Gly	Gln	Cys 15	Ile
Leu	Ala	Val	Ile 20	Thr	Tyr	Asn	Arg	Gln 25	Glu	Asn	Thr	Met	Val 30	Pro	Phe
Val	Ala	Arg 35	Gln	Trp	Leu	Leu 40	Ala	Ser	Val	Thr	Ala 45	Ala	Leu	Ala	
Ala	Ala 50	Pro	Ala	Phe	Ala 55	Ala	Lys	Asp	Val	Val 60	Val	Ala	Val	Gly	Ser
Asn 65	Phe	Thr	Thr	Leu 70	Asp	Pro	Tyr	Asp	Ala 75	Asn	Asp	Thr	Leu	Ser 80	Gln
Ala	Val	Ala	Lys	Ser 85	Phe	Tyr	Gln	Gly 90	Leu	Phe	Gly	Leu	Asp 95	Arg	Glu
Met	Lys	Leu	Lys 100	Asn	Val	Leu	Ala	Glu 105	Gly	Tyr	Thr	Val	Ser 110	Asp	Asp
Gly	Leu	Val 115	Tyr	Thr	Val	Lys	Leu 120	Arg	Thr	Gly	Val	Lys 125	Phe	Gln	Asp
Gly	Thr 130	Asp	Phe	Asn	Ala	Glu 135	Ala	Val	Lys	Ile	Asn 140	Leu	Asp	Arg	Ala
Ser 145	Asn	Pro	Glu	Asn	Gly 150	Leu	Lys	Arg	Tyr	Asn 155	Leu	Tyr	Lys	Asn	Ile 160
Ala	Ser	Thr	Glu	Ala 165	Val	Asp	Pro	Ala	Thr 170	Val	Lys	Ile	Val	Leu	Lys 175
Glu	Pro	Phe	Ser 180	Ala	Phe	Ile	Asn	Ile 185	Leu	Ala	His	Pro	Ala 190	Thr	Ala
Met	Ile	Ser 195	Pro	Ala	Ala	Leu	Lys 200	Lys	Tyr	Gly	Lys	Glu 205	Ile	Gly	Phe
His	Pro 210	Val	Gly	Thr	Gly	Pro	Tyr 215	Glu	Leu	Leu	Thr 220	Trp	Asn	Gln	Thr
Asp	Phe	Val	Lys	Val	Lys	Lys	Phe	Ala	Gly	Tyr	Trp	Gln	Gln	Gly	Leu

225					230					235				240	
Pro	Lys	Leu	Asp	Thr	Ile	Thr	Trp	Arg	Pro	Val	Val	Asp	Asn	Asn	Thr
				245					250					255	
Arg	Ala	Ala	Met	Leu	Gln	Thr	Gly	Glu	Ala	Gln	Phe	Ala	Phe	Pro	Ile
			260					265					270		
Pro	Tyr	Glu	Gln	Ala	Ala	Leu	Leu	Ala	Lys	Asn	Ser	Lys	Leu	Glu	Leu
		275					280					285			
Val	Ala	Ser	Pro	Ser	Ile	Met	Gln	Arg	Tyr	Ile	Ser	Met	Asn	Val	Thr
	290					295					300				
Gln	Lys	Pro	Phe	Asp	Asn	Pro	Lys	Val	Arg	Glu	Ala	Ile	Asn	Tyr	Ala
305					310					315					320
Ile	Asn	Arg	Gln	Ala	Leu	Val	Lys	Val	Ala	Phe	Ala	Gly	Tyr	Ala	Thr
			325						330					335	
Pro	Ala	Thr	Gly	Val	Met	Pro	Pro	Ala	Ile	Glu	Tyr	Ala	Gln	Ser	Tyr
			340					345					350		
Gln	Pro	Trp	Pro	Tyr	Asp	Pro	Ala	Lys	Ala	Arg	Glu	Leu	Leu	Lys	Glu
		355					360					365			
Ala	Gly	Tyr	Pro	Asn	Gly	Phe	Ser	Thr	Thr	Leu	Trp	Ser	Ser	His	Asn
	370					375					380				
His	Ser	Thr	Ala	Gln	Lys	Val	Leu	Gln	Phe	Thr	Gln	Gln	Gln	Leu	Ala
385					390					395					400
Gln	Val	Gly	Ile	Lys	Ala	Arg	Val	Thr	Ala	Met	Asp	Ala	Gly	Gln	Arg
			405						410					415	
Ala	Ala	Glu	Val	Glu	Gly	Lys	Gly	Gln	Lys	Glu	Ser	Gly	Val	Arg	Met
		420					425						430		
Phe	Tyr	Thr	Gly	Trp	Thr	Ala	Ser	Thr	Gly	Glu	Ala	Asp	Trp	Ser	Leu
		435				440						445			
Ser	Pro	Leu	Phe	Ala	Ser	Gln	Asn	Trp	Pro	Pro	Thr	Leu	Phe	Asn	Thr
	450					455					460				
Ala	Phe	Tyr	Ser	Asn	Pro	Gln	Val	Asp	Lys	Asp	Leu	Ala	Asp	Ala	Leu
465					470					475					480
Lys	Thr	Thr	Lys	Pro	Glu	Glu	Lys	Ala	Arg	Leu	Tyr	Lys	Glu	Ala	Gln
			485						490					495	
Asp	Ile	Ile	Trp	Lys	Glu	Ser	Pro	Trp	Val	Pro	Leu	Val	Val	Glu	Lys
			500					505					510		
Leu	Val	Ser	Ala	His	Asn	Lys	Ala	Leu	Thr	Gly	Phe	Tyr	Ile	Met	Pro
		515					520					525			
Asp	Thr	Gly	Phe	Ser	Phe	Asp	Asp	Ala	Asp	Leu	Lys				
	530					535					540				

<210> 8262

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 8262

Trp	Trp	Met	Cys	Cys	Thr	Pro	Pro	Leu	Thr	Arg	Pro	Ser	Gly	Ile	Ser
1			5						10					15	
Lys	Met	Arg	Leu	Leu	Asn	Trp	Arg	Arg	Gln	Ala	Ile	Leu	Asn	Ala	Met
			20					25					30		
Pro	Gly	Ile	Arg	Pro	Asp	His	Ile	Arg	Thr	Pro	Trp	Ile	Glu	Phe	Trp
		35					40					45			
Arg	Arg	Phe	Arg	Arg	Gln	Pro	Val	Ala	Met	Val	Ala	Gly	Leu	Phe	Val
		50				55					60				
Leu	Leu	Leu	Ile	Leu	Val	Ala	Ile	Ile	Ala	Pro	Trp	Leu	Ala	Pro	Phe
65					70				75						80
Asp	Ala	Glu	Asn	Tyr	Phe	Asp	Tyr	Asp	Arg	Leu	Asn	Asp	Gly	Pro	Ser
			85					90						95	
Met	Met	His	Trp	Phe	Gly	Val	Asp	Ser	Leu	Gly	Arg	Asp	Ile	Phe	Ser
		100						105					110		
Arg	Val	Leu	Val	Gly	Ala	Gln	Ile	Ser	Leu	Ala	Ala	Gly	Val	Phe	Ala

210		215		220	
Glu Gln Met Ala Gly Ile	Ala Val Ile Ile Gly Met Ile Ala Val Thr				
225		230		235	240
Gly Gly Leu Thr Phe	Ser Ala Phe Tyr Asp Thr Pro Ala Gly Pro Ser				
	245		250		255
Val Val Leu Cys Ala Ala Val Leu Phe	Ile Phe Ser Met Met Lys Lys				
	260		265		270
Thr Ala Gln					
275					

<210> 8264
 <211> 100
 <212> PRT
 <213> Enterobacter cloacae

<400> 8264

His Cys Thr Asn Asn Gln Tyr Lys Phe Ser Leu Lys Ile Gln Ser Phe	
1	5 10 15
Pro Glu Val Phe Met Phe Val Glu Leu Val Tyr Asp Lys Arg Asn Val	
	20 25 30
Asp Gly Leu Val Gly Ala Arg Glu Ile Ile Leu Ala Glu Leu Thr Lys	
	35 40 45
Arg Val His Gln Ile Phe Pro Asp Ala Glu Val Arg Val Lys Pro Met	
	50 55 60
Gln Ala Asn Gly Leu Asn Ser Asp Ala Ser Lys Ser Asp Arg Glu Lys	
65	70 75 80
Leu Asn Arg Met Leu Glu Glu Met Phe Glu Asp Ala Asn Met Trp Leu	
	85 90 95
Val Asn Asp	
	100

<210> 8265
 <211> 254
 <212> PRT
 <213> Enterobacter cloacae

<400> 8265

Ile Asp Met Thr Thr Leu Val Ser Leu Glu Asn Val Ser Val Ser Phe	
1	5 10 15
Gly Gln Arg Arg Val Leu Ser Asp Val Ser Leu Asn Leu Lys Pro Gly	
	20 25 30
Lys Ile Leu Thr Leu Leu Gly Pro Asn Gly Ala Gly Lys Ser Thr Leu	
	35 40 45
Val Arg Val Val Leu Gly Leu Val Ala Pro Asp Ala Gly Val Ile Val	
	50 55 60
Arg Glu Asp Lys Leu Arg Ile Gly Tyr Val Pro Gln Lys Leu His Leu	
65	70 75 80
Asp Ala Thr Leu Pro Leu Thr Val Ser Arg Phe Leu Arg Leu Arg Pro	
	85 90 95
Gly Thr Arg Lys Ala Asp Ile Leu Pro Ala Leu Lys Arg Val Gln Ala	
	100 105 110
Gly His Leu Val Glu Ala Pro Leu Gln Lys Leu Ser Gly Gly Glu Thr	
	115 120 125
Gln Arg Val Leu Leu Ala Arg Ala Leu Leu Ser Ser Pro Gln Leu Leu	
	130 135 140
Val Leu Asp Glu Pro Thr Gln Gly Val Asp Val Asn Gly Gln Val Ala	
145	150 155 160
Leu Tyr Asp Leu Ile Asp Gln Leu Arg Arg Glu Leu Asn Cys Ala Val	
	165 170 175
Leu Met Val Ser His Asp Leu His Leu Val Met Ala Lys Thr Asp Glu	
	180 185 190

Val	Leu	Cys	Leu	Asn	His	His	Ile	Cys	Cys	Ser	Gly	Thr	Pro	Glu	Val
		195					200					205			
Val	Ser	Met	His	Pro	Glu	Phe	Ile	Ser	Met	Phe	Gly	His	Arg	Gly	Ala
	210					215					220				
Glu	Gln	Leu	Gly	Ile	Tyr	Arg	His	Asn	His	Asn	His	Arg	His	Asp	Leu
225					230					235					240
Gln	Gly	Arg	Ile	Val	Leu	Arg	Arg	Gly	Asn	Gly	His	Ser			
				245					250						

<210> 8266
 <211> 198
 <212> PRT
 <213> Enterobacter cloacae

<400> 8266

Lys	Ser	Asn	His	Leu	Thr	Gly	Ala	Thr	Met	Phe	Thr	Leu	Asp	Ala	Thr
1				5					10					15	
Lys	Thr	Ala	Leu	Val	Val	Ile	Asp	Leu	Gln	Glu	Gly	Ile	Leu	Pro	Phe
			20					25					30		
Ala	Gly	Gly	Pro	His	Thr	Ala	Asp	Asp	Val	Val	Ser	Arg	Ala	Ala	Arg
		35					40					45			
Leu	Ala	Glu	Lys	Cys	Arg	Ala	Ser	Gly	Ser	Pro	Val	Val	Met	Val	Arg
	50					55					60				
Val	Gly	Trp	Ser	Ala	Asp	Phe	Ala	Glu	Ala	Leu	Lys	Gln	Pro	Val	Asp
65					70					75					80
Ala	Gln	Ala	Pro	Ala	Gln	Ala	Leu	Pro	Asp	Asn	Trp	Trp	Thr	Tyr	Pro
				85					90					95	
Val	Ser	Leu	Gly	Lys	Arg	Asp	Ser	Asp	Ile	Glu	Val	Thr	Lys	Arg	Gln
		100						105					110		
Trp	Gly	Ala	Phe	Tyr	Gly	Thr	Asp	Leu	Glu	Leu	Gln	Leu	Arg	Arg	Arg
	115						120						125		
Gly	Ile	Asp	Thr	Ile	Ile	Leu	Cys	Gly	Ile	Ser	Thr	Asn	Ile	Gly	Val
	130					135						140			
Glu	Ser	Thr	Ala	Arg	Asn	Ala	Trp	Glu	Leu	Gly	Phe	Asn	Leu	Val	Ile
145					150					155					160
Ala	Glu	Asp	Ala	Cys	Ser	Ala	Ala	Ser	Ala	Asp	Gln	His	Gln	Cys	Ser
			165						170					175	
Met	Thr	His	Ile	Phe	Pro	Arg	Ile	Gly	Arg	Val	Arg	Ser	Thr	Asp	Glu
			180					185						190	
Ile	Leu	Ser	Ala	Leu											
				195											

<210> 8267
 <211> 274
 <212> PRT
 <213> Enterobacter cloacae

<400> 8267

Ile	Lys	Val	Gly	Leu	Gly	Asp	Glu	Val	Thr	Ala	Asn	Phe	Ala	Ser	Leu
1				5					10					15	
Glu	Ile	Gly	Ala	Lys	Lys	Pro	Ser	Ser	Ala	Ser	Phe	Val	Asp	Phe	His
			20					25					30		
Phe	Leu	Gly	Thr	Asn	Asp	Tyr	Asp	Gly	Arg	Ile	Leu	Cys	Ser	Ser	Gly
		35					40					45			
Ile	Ser	Gly	Thr	Ala	Gly	Ala	Gly	Ala	Met	Thr	Tyr	Tyr	Gly	Gly	Ser
	50				55						60				
His	Arg	Phe	Val	Gly	Ser	Val	Ser	Phe	Asp	His	Ser	Ala	Thr	Phe	Asn
65					70				75						80
Ser	Ser	Val	Asp	Ala	Lys	Gly	Ile	Val	Ala	Gly	Val	Thr	Ser	Leu	Asn
				85					90					95	
Val	Arg	Ala	Ser	Ser	Asp	Thr	Gln	Tyr	Ser	His	Val	Trp	Phe	Tyr	Gly

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<210> 8268
<211> 72
<212> PRT
<213> Enterobacter cloacae
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<210> 8269
<211> 132
<212> PRT
<213> Enterobacter cloacae
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<400> 8269															
Arg	Thr	Gly	Gln	His	Ala	Gly	Phe	Ala	Ser	Val	Ala	Ile	Asn	Gln	Gly
1				5					10					15	
Ser	Leu	Thr	Met	Ala	Val	Glu	Thr	Phe	Ser	Trp	Cys	Pro	Lys	Val	Ala
			20					25					30		
Ser	Gln	Val	Asp	Thr	Ser	Phe	Arg	Thr	Arg	Lys	Ala	Gln	Phe	Gly	Asp
		35					40					45			
Gly	Tyr	Ala	Gln	Val	Ala	Gly	Asp	Gly	Ile	Asn	Pro	Val	Thr	Pro	Gln
	50					55					60				
Trp	Ser	Val	Ser	Phe	Thr	Gly	Asp	Glu	Ala	Tyr	Ile	Gln	Ala	Ile	Lys
65					70					75					80
Asn	Phe	Leu	Asn	Arg	His	Ala	Gly	Trp	Lys	Ser	Phe	Ile	Trp	Lys	Pro
				85					90					95	
Pro	Leu	Glu	Pro	Ser	Gly	Leu	Trp	Arg	Ala	Glu	Ser	Phe	Gln	Ile	Ser
			100					105					110		

Thr His Gly Asn Lys Lys Tyr Thr Leu Ser Ser Thr Phe Ile Gln Ala
 115 120 125
 Tyr His Pro
 130

<210> 8270

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 8270

Gly Phe Asp Val Met Glu Arg Lys Thr Val Ile Lys Leu Ser Gly Ser
 1 5 10 15
 Met Ala Gln Arg Phe Gly Arg Thr His Arg Arg Ala Leu Thr Ser Ala
 20 25 30
 Ser Glu Val Phe Arg Ala Leu Ser Asn Thr Ile Asp Gly Phe Asp Ala
 35 40 45
 Tyr Leu Arg Glu Ala Arg Ala Lys Gly Leu Asp Phe Val Ile Phe Arg
 50 55 60
 Asp Arg Arg Asn Ile Gly His Glu Glu Phe Glu Leu Leu Gly Pro Gly
 65 70 75 80
 Asp Glu Leu Arg Ile Ile Pro Val Ile Arg Gly Ser Lys Arg Ala Gly
 85 90 95
 Val Phe Gln Ala Leu Leu Gly Thr Ala Leu Val Ala Ala Ala Ile Trp
 100 105 110
 Met Pro Gly Val Ser Ile Ala Ala Ser Asn Leu Met Phe Ser Val Gly
 115 120 125
 Ala Ala Met Ala Val Gly Gly Val Val Gln Met Leu Ser Pro Gln Val
 130 135 140
 Ser Gly Leu Arg Met Arg Gln Glu Pro Asp Asn Lys Pro Ser Tyr Ala
 145 150 155 160
 Phe Gly Gly Pro Val Asn Thr Thr Ala Ser Gly Asn Pro Val Pro Leu
 165 170 175
 Leu Tyr Gly Gln Arg Glu Ile Gly Gly Ala Ile Ile Ser Ala Gly Val
 180 185 190
 Tyr Ala Glu Asp Gln Gln
 195

<210> 8271

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 8271

Arg Arg Lys Arg Lys Thr Asp Met Ala Tyr Lys Arg Pro Val Ser Val
 1 5 10 15
 Leu Val Val Ile Tyr Ala Glu Asp Thr Lys Arg Val Leu Met Leu Gln
 20 25 30
 Arg Arg Asp Asp Pro Asp Phe Trp Gln Ser Val Thr Gly Ser Leu Glu
 35 40 45
 Glu Gly Glu Thr Ala Pro Gln Ala Ala Arg Glu Val Lys Glu Glu
 50 55 60
 Val Ala Ile Asp Val Ala Tyr Glu Gln Leu Thr Leu Lys Asp Cys Gln
 65 70 75 80
 Arg Thr Val Glu Phe Glu Ile Phe Ser His Leu Arg His Arg Tyr Ala
 85 90 95
 Pro Gly Ile Glu Arg Asn Thr Glu Ser Trp Phe Cys Leu Ala Leu Pro
 100 105 110
 His Glu Arg Glu Ile Val Phe Thr Glu His Leu Thr Tyr Arg Trp Val
 115 120 125
 Asp Ala Ala Asp Ala Ala Ala Leu Thr Lys Ser Trp Ser Asn Arg Gln

130 135 140
 Ala Ile Glu Glu Phe Val Ile Asn Ala Ala
 145 150 155

<210> 8272
 <211> 256
 <212> PRT
 <213> Enterobacter cloacae

<400> 8272
 Glu Gly Ala Ile Phe Gly Glu Leu Phe Met Ala Gly His Ser Lys Trp
 1 5 10 15
 Ala Asn Thr Lys His Arg Lys Ala Ala Gln Asp Ala Lys Arg Gly Lys
 20 25 30
 Ile Phe Thr Lys Ile Ile Arg Glu Leu Val Thr Ala Ala Arg Leu Gly
 35 40 45
 Gly Gly Asp Pro Ala Ser Asn Pro Arg Leu Arg Ala Ala Val Asp Lys
 50 55 60
 Ala Leu Ser Asn Asn Met Thr Arg Asp Thr Leu Asn Arg Ala Ile Ala
 65 70 75 80
 Arg Gly Val Gly Gly Asp Glu Asp Ala Asn Met Glu Thr Ile Ile Tyr
 85 90 95
 Glu Gly Tyr Gly Pro Gly Gly Thr Ala Val Met Val Glu Cys Leu Ser
 100 105 110
 Asp Asn Arg Asn Arg Thr Val Ala Glu Val Arg His Ala Phe Thr Lys
 115 120 125
 Thr Gly Gly Asn Leu Gly Thr Asp Gly Ser Val Ala Tyr Leu Phe Ser
 130 135 140
 Lys Lys Gly Val Ile Ser Phe Glu Lys Gly Asp Glu Asp Ala Ile Met
 145 150 155 160
 Glu Ala Ala Leu Glu Ala Gly Ala Glu Asp Val Val Thr Tyr Asp Asp
 165 170 175
 Gly Ala Ile Asp Val Tyr Thr Ala Trp Glu Glu Met Gly Ala Val Arg
 180 185 190
 Asp Ala Leu Glu Ala Ala Gly Leu Lys Ala Asp Asn Ala Glu Val Ser
 195 200 205
 Met Ile Pro Ser Thr Lys Ala Asp Met Asp Ala Glu Thr Ala Pro Lys
 210 215 220
 Leu Leu Arg Leu Ile Asp Met Leu Glu Asp Cys Asp Asp Val Gln Glu
 225 230 235 240
 Val Tyr His Asn Gly Glu Ile Ser Asp Glu Val Ala Ala Thr Leu
 245 250 255

<210> 8273
 <211> 290
 <212> PRT
 <213> Enterobacter cloacae

<400> 8273
 Arg Gly Glu Lys Pro Gly Ala Ala His Gly Ala Tyr Pro Ala Glu Ala
 1 5 10 15
 Pro Cys Glu Pro Ala Gly Arg Arg Arg Gly Cys Ala Gly His Cys Asp
 20 25 30
 Tyr Pro Leu Ser Arg Gln Pro Glu Cys Asp Ala Asn Glu Arg Val Ala
 35 40 45
 Ala Gln Ser Gly Ala Arg Gln Val Thr Ile Met Thr Asn Gln Ala Gly
 50 55 60
 Cys Leu Ser Ser Leu Phe Leu Leu Cys Arg Gln Ile Ile Ser Ser Arg
 65 70 75 80
 Thr Gln Glu Arg His Val Ile Gly Arg Leu Arg Gly Ile Ile Ile Glu
 85 90 95

Lys Gln Pro Pro Leu Val Leu Leu Glu Val Gly Gly Val Gly Tyr Glu
 100 105 110
 Val His Met Pro Met Thr Cys Phe Tyr Glu Leu Pro Glu Ala Gly Lys
 115 120 125
 Glu Ala Val Val Phe Thr Gln Phe Val Val Arg Glu Asp Ala Gln Leu
 130 135 140
 Leu Tyr Gly Phe Asn Asn Lys Gln Glu Arg Thr Leu Phe Arg Glu Leu
 145 150 155 160
 Ile Lys Thr Asn Gly Val Gly Pro Lys Leu Ala Leu Ala Ile Leu Ser
 165 170 175
 Gly Met Ser Ala Pro Gln Phe Val Asn Ala Val Glu Arg Glu Asp Pro
 180 185 190
 Ala Ala Leu Ile Lys Leu Pro Gly Ile Gly Lys Lys Thr Ala Glu Arg
 195 200 205
 Leu Ile Val Glu Met Lys Asp Arg Phe Lys Gly Leu His Gly Asp Leu
 210 215 220
 Phe Thr Pro Ala Ala Asp Leu Val Leu Thr Ser Pro Gly Ala Pro Ala
 225 230 235 240
 Ser Asp Asp Asp Ala Glu Gln Glu Ala Val Ala Ala Leu Val Ala Leu
 245 250 255
 Gly Tyr Lys Pro Gln Glu Ala Ser Arg Met Val Ser Lys Ile Ala Lys
 260 265 270
 Pro Asp Ala Ser Ser Glu Thr Leu Ile Arg Glu Ala Leu Arg Ala Ala
 275 280 285
 Leu
 290

<210> 8274

<211> 1164

<212> PRT

<213> Enterobacter cloacae

<400> 8274

Met Ala Thr Leu Arg Glu Leu Ile Ile Lys Ile Ser Ala Asn Ser Gln
 1 5 10 15
 Ser Phe Gln Thr Glu Ile Ser Arg Ala Ser Arg Met Gly Gln Asp Tyr
 20 25 30
 Tyr Arg Thr Met Gln Asn Gly Gly Arg Gln Ala Ala Ala Ala Arg
 35 40 45
 Glu Ser Glu Arg Ala Leu Ser Asp Leu Thr Ala Gly Phe Ala Ser Ala
 50 55 60
 Gly Arg Ala Ala Ala Ala Thr Ala Ala Phe Ala Thr Gly Lys Leu
 65 70 75 80
 Val Gln Ile Ala Asp Glu Trp Asn Ser Val Asn Ala Arg Leu Lys Gln
 85 90 95
 Ala Ser Ser Ser Ala Asp Asp Phe Ala Ala Ser Gln Arg Gln Leu Met
 100 105 110
 Glu Ile Ser Gln Arg Thr Gly Thr Ala Phe Ser Asp Asn Ala Asn Leu
 115 120 125
 Phe Ser Arg Ala Ala Ala Ser Met Arg Glu Phe Gly Tyr Ser Ser Asp
 130 135 140
 Glu Val Leu Lys Ile Thr Glu Ala Val Ser Thr Gly Leu Lys Leu Ser
 145 150 155 160
 Gly Ala Asn Thr Gln Glu Ala Ser Ser Val Ile Thr Gln Phe Ser Gln
 165 170 175
 Ala Leu Ala Gln Gly Val Leu Arg Gly Glu Glu Phe Asn Ala Val Asn
 180 185 190
 Glu Ala Gly Asp Arg Val Ile Arg Ala Leu Ala Ala Gly Met Gly Val
 195 200 205
 Ala Arg Lys Asp Leu Lys Ser Met Ala Asp Gln Gly Gln Leu Thr Ile
 210 215 220

Asp	Lys	Val	Val	Pro	Ala	Leu	Met	Ser	Gln	Leu	Gly	Ser	Leu	Gln	Gly
225					230					235					240
Glu	Phe	Ala	Ser	Met	Pro	Gln	Thr	Val	Ser	Gly	Ser	Leu	Gln	Lys	Val
				245					250					255	
Thr	Asn	Ser	Phe	Met	Ala	Trp	Val	Gly	Gly	Val	Asn	Gln	Ala	Thr	Gly
			260					265					270		
Ala	Thr	Asp	Ala	Leu	Ser	Gly	Gly	Leu	Asp	Gly	Val	Ala	Gln	Thr	Leu
		275					280					285			
Asp	Ser	Phe	Thr	Ser	Ser	Ala	Val	Ser	Gly	Ala	Leu	Ser	Asp	Val	Ala
	290					295					300				
Asp	Asn	Met	Ser	Thr	Ile	Thr	Thr	Val	Ala	Gly	Ala	Leu	Val	Gly	Val
305					310					315					320
Gly	Leu	Ala	Arg	Tyr	Leu	Ser	Gly	Val	Val	Thr	Ser	Ala	Thr	Ser	Ala
				325					330					335	
Thr	Gly	Ala	Leu	Ile	Ser	Ala	Ala	Lys	Ser	Glu	Val	Ala	Leu	Ala	Val
			340					345					350		
Ala	Gln	Asp	Lys	Ala	Ala	Gln	Ser	Ala	Val	Ala	Ala	Ser	Arg	Ala	Glu
		355					360					365			
Val	Tyr	Arg	Ala	Gln	Gln	Ala	Val	Gln	Arg	Ser	Arg	Ser	Ala	Asp	Val
	370					375					380				
Gln	Ala	Ala	Gln	Gln	Glu	Lys	Ile	Ala	Ala	Ala	Glu	Ala	Lys	Val	Thr
385					390					395					400
Ala	Ala	Gln	Ala	Arg	Leu	Thr	Thr	Ala	Leu	Ala	Ser	Gly	Ser	Ala	Thr
				405					410					415	
Glu	Lys	Val	Arg	Ala	Arg	Thr	Ala	Leu	Glu	Arg	Ala	Gln	Ala	Gly	Leu
			420					425					430		
Val	Ala	Ala	Lys	Asn	Ala	Asp	Ala	Gln	Ala	Ile	Ala	Glu	Arg	Arg	Leu
		435					440					445			
Ala	Ser	Ala	Glu	Ala	Ala	Arg	Asp	Arg	Asn	Leu	Ala	Asn	Arg	Val	Thr
	450					455					460				
Thr	Gln	Ser	Asn	Leu	Asn	Ser	Val	Thr	Ser	Val	Gly	Thr	Arg	Leu	Leu
465					470					475					480
Ser	Ser	Ala	Leu	Gly	Leu	Ile	Gly	Gly	Val	Pro	Gly	Leu	Val	Met	Leu
				485					490					495	
Gly	Ala	Gly	Ala	Trp	Tyr	Ala	Val	Tyr	Gln	Asn	Gln	Glu	Gln	Ala	Arg
			500					505					510		
Arg	Ser	Ala	Gln	Glu	Tyr	Ala	Ser	Thr	Ile	Asp	Glu	Val	Ser	Lys	Lys
		515					520					525			
Thr	Arg	Ala	Met	Thr	Leu	Pro	Glu	Ala	Ser	Asp	Asn	Ala	Glu	Lys	Thr
	530					535						540			
Arg	Ala	Ala	Leu	Asn	Glu	Gln	Asn	Arg	Leu	Ile	Asp	Glu	Gln	Lys	Ser
545					550					555					560
Lys	Val	Glu	Ser	Leu	Lys	Glu	Gln	Ile	Ala	Gly	Tyr	Gln	Ser	Val	Ile
				565					570					575	
Ser	Asn	Pro	Gly	Pro	Thr	Thr	Ser	Gly	Gly	Phe	Met	Ile	Asn	His	Leu
			580					585					590		
Thr	Tyr	Leu	Asp	Thr	Val	Thr	Arg	Gly	Leu	Ala	Thr	Ala	Thr	Glu	Gln
		595					600					605			
Leu	Ser	Val	Glu	Gln	Glu	Arg	Leu	Ala	Gln	Met	Gln	Gln	Glu	Ser	Ala
	610					615					620				
Ser	Ile	Gln	Gln	Val	Leu	Glu	Gly	Leu	Glu	His	Arg	Arg	Val	Ala	Leu
625					630					635					640
Ile	Arg	Glu	Glu	Ala	Ala	Asn	Gln	Asn	Arg	Ala	Tyr	Gln	Ser	Leu	Leu
				645					650					655	
Leu	Met	Asn	Gly	Gln	His	Asp	Glu	Phe	Asn	Arg	Leu	Leu	Gly	Leu	Gly
			660					665					670		
Asn	Gln	Leu	Leu	Met	Ala	Arg	Gln	Gly	Leu	Ala	Asn	Val	Pro	Leu	Arg
		675					680					685			
Leu	Pro	Gln	Ala	Asp	Leu	Asp	Lys	Lys	Gln	Thr	Asp	Ala	Leu	Glu	Lys
	690					695					700				
Ser	Arg	Arg	Asp	Leu	Glu	Leu	Ser	Arg	Leu	Lys	Gly	Glu	Ala	Lys	Glu

705 710 715 720
 Arg Leu Arg Leu Ser Tyr Ala Ala Asp Asp Leu Gly Leu Thr Ser Asp
 725 730 735
 Pro Gln Phe Gln Thr Gly Arg Gln Glu Leu Ile Asn Asn Gly Leu Ala
 740 745 750
 Glu Trp Arg Asn Asn Glu Ala Asn Lys Pro Lys Ala Lys Gly Gly Lys
 755 760 765
 Thr Glu Gly Glu Lys Thr Glu Asp Val Tyr Lys Arg Leu Ile Lys Gln
 770 775 780
 Gln Lys Glu Gln Ile Ala Leu Gln Gly Gln Asn Thr Glu Leu Ala Lys
 785 790 795 800
 Val Lys Tyr Gln Val Ser Gln Gly Glu Leu Ala Ser Leu Thr Glu Ala
 805 810 815
 Gln Lys Lys Thr Val Leu Gln Asn Ala Leu Ile Asp Gln Val Lys
 820 825 830
 Leu Arg Glu Gln Leu Arg Asn Tyr Glu Ala Asn Leu Ala Asp Ser Asn
 835 840 845
 Ala Ser Ala Arg Ala Ala Asn Glu Ala Gln Leu Leu Gly Tyr Gly Gln
 850 855 860
 Gly Ala Arg Phe Arg Glu Arg Leu Gln Glu Gln Phe Asn Leu Arg Lys
 865 870 875 880
 Glu Phe Glu Gln Lys Asn Thr Asp Leu Leu Arg Gln Arg Gln Ala Gly
 885 890 895
 Glu Ile Asp Glu Thr Phe Tyr Gln Gln Gly Leu Ala Leu Asn Lys Arg
 900 905 910
 Tyr Leu Glu Glu Arg Leu Arg Asp Gln Glu Gly Tyr Tyr Ala Ala Ser
 915 920 925
 Asp Ala Gln Arg Asp Asp Trp Met Thr Gly Leu Ser Glu Gly Tyr Ala
 930 935 940
 Asn Trp Val Asp Glu Ala Thr Asp Tyr Ser Ser Met Ala Ala Asp Gly
 945 950 955 960
 Met Lys Gln Ala Met Gly Gly Ala Val Thr Thr Ile Thr Asp Met Leu
 965 970 975
 Asn Gly Asn Val Asp Ser Trp Lys Asp Trp Gly Val Ser Val Leu Lys
 980 985 990
 Ile Ile Gln Asn Val Leu Val Asn Met Ala Val Ala Asn Gly Val Ser
 995 1000 1005
 Ser Ile Gly Ser Leu Phe Ser Phe Gly Ala Ser Ser Ala Ala Thr Ala
 1010 1015 1020
 Ser Ser Gly Thr Ala Ile Gln Asn Ala Gly Ala Asn Phe Thr Phe Asn
 1025 1030 1035 1040
 Ala Lys Gly Asn Val Tyr Asp Ser Pro Ser Leu Ser Ala Tyr Ser Asn
 1045 1050 1055
 Gly Val Phe Gln Thr Pro Gln Leu Phe Ala Phe Ala Lys Gly Ala Gly
 1060 1065 1070
 Val Phe Ala Glu Ala Gly Pro Glu Ala Ile Met Pro Leu Thr Arg Ala
 1075 1080 1085
 Ala Asp Gly Ser Leu Gly Val Arg Ala Val Gly Ala Pro Gln Val Ser
 1090 1095 1100
 Gly Gly Val Pro Ser Val Asn Phe Gly Asp Ile Asn Ile Gln Gly Gly
 1105 1110 1115 1120
 Ser Pro Gln Ala Ala Ser Gln Gly Thr Ala Gly Ala Ala Gly Arg Gln
 1125 1130 1135
 Leu Lys Asp Ala Ile Thr Gly Val Ile Asn Glu Gln Ala Ser Met Pro
 1140 1145 1150
 Gly Ser Pro Leu Trp Arg Leu Ile Lys Gly Val
 1155 1160

<210> 8275

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 8275

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Thr Ala Gly Leu Trp Gly Leu Pro Arg Arg Phe Thr Ser Glu Arg Ile
1      5      10      15
Thr Met Arg Glu Lys Thr Val Ser Ala Ile Leu Ala His Ala Ala Ser
      20      25      30
Ser Cys Pro Asp Glu Cys Cys Gly Val Val Ile Gln Lys Gly Arg Val
      35      40      45
Glu Lys Tyr Ile Pro Cys Arg Asn Gln Ala Glu Ser Pro Thr Glu Gln
      50      55      60
Phe Glu Leu Ser Pro Glu Asp Tyr Ala Ala Ala Glu Glu Gln Gly Thr
65      70      75      80
Val Val Ala Ile Val His Ser His Pro Gly Asp Gly Ala Thr Thr Gln
      85      90      95
Pro Ser Glu Leu Asp Met Leu Met Cys Asp Ala Thr Glu Leu Pro Trp
      100     105     110
Val Ile Ala Ser Trp Pro Glu Gly Asp Ile Arg Thr Val Met Pro Arg
      115     120     125
Gly Asp Arg Pro Leu Thr Gly Arg Gln Phe Val Leu Gly His Ala Asp
130     135     140
Cys Trp Ser Leu Ile Met Asp Tyr Phe Arg Thr Glu His Gly Ile Thr
145     150     155     160
Leu Pro Asn Tyr Ser Val Asp Arg His Trp Trp Glu Gln Gly Glu Asn
      165     170     175
Leu Tyr Met Asp Asn Trp Tyr Glu Cys Gly Phe Arg Glu Phe Asp Gly
      180     185     190
Pro Ser Gln Pro Gly Asp Met Val Ile Met Gln Val Gln Ser Thr Val
195     200     205
Pro Asn His Ala Gly Ile Leu Leu Glu Gly Asn Val Leu Leu His His
210     215     220
Met Tyr Gly Gln Leu Ser Gln Arg Ile Pro Tyr Gly Gly Tyr Tyr Arg
225     230     235     240
Asp Arg Thr Ile Lys Ile Leu Arg Tyr Lys Asp Leu Met
      245     250

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<210> 8276

<211> 1291

<212> PRT

<213> Enterobacter cloacae

<400> 8276

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Arg Trp Leu Phe Tyr Gly Arg Asp Met Thr Thr Thr Ile Ile Lys Gly
1      5      10      15
Arg Gly Lys Gly Gly Ser Asn Gln Thr Arg Thr Pro Ile Glu Ala Pro
      20      25      30
Asp Ser Ile Gln Ser Ile Ala Arg Ala Lys Val Leu Ile Ala Leu Gly
      35      40      45
Glu Gly Glu Phe Ala Gly Gly Leu Asp Gly Lys Asn Ile Phe Leu Gly
      50      55      60
Asp Ser Ser Ser Tyr Thr Pro Leu Gln Asn Ala Asp Gly Ser Tyr Asn
65      70      75      80
Phe Asn Asn Val Lys Tyr Glu Phe Arg Ser Gly Thr Gln Asp Gln Asp
      85      90      95
Tyr Ile Gln Gly Phe Pro Gly Ile Glu Asn Glu Leu Gln Val Ser Tyr
100     105     110
Glu Leu Lys Gln Ala Val Pro Tyr Val Arg Ala Val Ser Asn Thr Gln
115     120     125
Leu Ser Ala Leu Arg Ile Arg Leu Gly Trp Pro Thr Leu Leu Leu Gln
130     135     140
Lys Asn Asn Gly Asp Lys Val Gly Thr Arg Val Glu Tyr Ala Ile Asp

```

145					150					155					160
Leu	Ser	Val	Asp	Gly	Gly	Pro	Tyr	Glu	Thr	Val	Val	Asn	Gly	Ala	Val
				165					170					175	
Asp	Asp	Lys	Thr	Thr	Ser	Leu	Tyr	Glu	Arg	Ser	His	Arg	Val	Asn	Leu
			180					185					190		
Pro	Lys	Ala	Ser	Thr	Gly	Trp	Gln	Leu	Arg	Val	Arg	Arg	Ile	Thr	Pro
		195					200					205			
Asp	Ser	Thr	Ser	Val	Asn	Ile	Val	Asp	Thr	Met	Arg	Val	Val	Ala	Val
		210				215					220				
Thr	Glu	Ile	Ile	Asp	Ala	Lys	Leu	Arg	Tyr	Val	Asn	Thr	Ala	Leu	Leu
225					230					235				240	
Tyr	Val	Glu	Phe	Asp	Ala	Thr	Gln	Phe	Pro	Asn	Gly	Ile	Pro	Gln	Val
				245					250					255	
Val	Cys	Asn	Pro	Lys	Gly	Arg	Ile	Ile	Arg	Val	Pro	Asp	Thr	Tyr	Asp
			260					265					270		
Pro	Glu	Thr	Arg	Thr	Tyr	Ser	Gly	Thr	Trp	Glu	Gly	Val	Phe	Lys	Trp
		275					280					285			
Ala	Trp	Thr	Asp	Asn	Pro	Ala	Trp	Ile	Tyr	Tyr	Asp	Ile	Ile	Leu	Asn
		290				295					300				
Glu	Arg	Phe	Gly	Leu	Gly	Gln	Arg	Ile	Asp	Ala	Thr	Gln	Ile	Asp	Lys
305					310					315				320	
Trp	Glu	Leu	Tyr	Arg	Ile	Ala	Gln	Tyr	Cys	Asp	Gln	Leu	Val	Pro	Asp
				325					330					335	
Gly	Lys	Gly	Gly	Ser	Gly	Thr	Glu	Pro	Arg	Phe	Arg	Cys	Asn	Val	Tyr
			340					345					350		
Ile	Gln	Asp	Arg	Asn	Asp	Ala	Trp	Thr	Val	Leu	Arg	Asp	Leu	Ala	Gly
		355					360					365			
Ile	Phe	Arg	Gly	Met	Thr	Tyr	Trp	Gly	Asp	Asn	Lys	Met	Tyr	Val	Leu
		370				375					380				
Ala	Asp	Met	Pro	Arg	Asp	Val	Trp	His	Ile	Tyr	Asn	His	Ala	Ser	Val
385					390					395				400	
Val	Glu	Gly	Lys	Phe	Thr	Phe	Ala	Asp	Pro	Ser	Glu	Thr	Thr	Arg	Asn
				405					410					415	
Thr	Ala	Ala	Leu	Val	Asn	Trp	Ser	Asp	Pro	Ala	Asn	His	Tyr	Lys	Asp
			420					425					430		
Thr	Pro	Glu	Pro	Val	Tyr	Asp	Asn	Asp	Leu	Ala	Met	Arg	Phe	Asp	Tyr
		435				440						445			
Arg	Gln	Leu	Glu	Met	Thr	Ala	Ile	Gly	Cys	Thr	Arg	Gln	Ser	Glu	Ala
		450				455					460				
Asn	Arg	Arg	Gly	Arg	Trp	Ala	Leu	Leu	Thr	Asn	Gly	Ile	Gly	Glu	Val
465					470					475				480	
Val	Thr	Phe	Ser	Thr	Gly	Met	Asp	Val	Pro	Val	Gly	Glu	Val	Ile	
				485					490					495	
Gly	Val	Ala	Ala	Asn	Glu	Leu	Ala	Gly	Arg	Thr	Ile	Gly	Gly	Arg	Val
			500												

Ser	Tyr	Ser	Thr	Val	Asn	Gln	Asn	Ile	Ala	Ile	Thr	Thr	Met	Arg	Val
				645					650					655	
Ala	Trp	Asp	Ser	Val	Gln	Gly	Ala	Val	Ala	Tyr	Glu	Ala	Glu	Trp	Arg
			660					665					670		
Arg	Asp	Ser	Gly	Asn	Trp	Ile	Ser	Val	Pro	Arg	Thr	Ser	Ser	Leu	Gly
		675					680					685			
Phe	Glu	Val	Gln	Gly	Ile	Tyr	Ser	Gly	Arg	Tyr	Leu	Val	Arg	Val	Arg
	690					695					700				
Ala	Val	Asn	Ala	Ser	Asp	Val	Ser	Ser	Val	Trp	Val	Thr	Ser	Ser	Glu
705					710					715					720
Val	Asn	Leu	Thr	Gly	Lys	Val	Gly	Asn	Pro	Pro	Lys	Pro	Val	Gly	Phe
				725					730					735	
Ile	Ala	Ser	Asp	Asn	Val	Val	Phe	Gly	Ile	Glu	Leu	Ser	Trp	Gly	Phe
			740					745					750		
Pro	Ala	Asn	Thr	Asp	Asp	Thr	Leu	Lys	Thr	Glu	Ile	Gln	Tyr	Ser	Leu
		755					760					765			
Thr	Gly	Thr	Glu	Asp	Asp	Ala	Met	Leu	Leu	Ala	Asp	Val	Pro	Tyr	Pro
	770					775					780				
Gln	Arg	Lys	Tyr	Gln	Gln	Met	Gly	Leu	Lys	Ala	Gly	Gln	Thr	Phe	Trp
785					790					795					800
Tyr	Arg	Ala	Gln	Leu	Val	Asp	Arg	Ser	Gly	Asn	Glu	Ser	Gly	Tyr	Thr
			805					810						815	
Asp	Phe	Val	Arg	Gly	Gln	Ala	Ser	Ile	Asp	Val	Ser	Asp	Ile	Thr	Asp
			820					825					830		
Ala	Ile	Leu	Glu	Glu	Ile	Lys	Asp	Ser	Glu	Val	Phe	Lys	Asp	Leu	Ile
		835					840					845			
Glu	Ser	Ala	Val	Asp	Ser	Asn	Glu	Lys	Leu	Ala	Glu	Leu	Ser	Asp	Ala
	850					855					860				
Ile	Lys	Glu	Asn	Ala	Asp	Gly	Leu	Ala	Ala	Ala	Val	Gly	Ser	Asn	Lys
865					870					875					880
Gln	Thr	Ala	Glu	Ala	Ile	Ile	Gly	Asn	Ala	Leu	Ala	Ile	Ala	Asp	Val
			885					890						895	
Ile	Val	Arg	Gln	Thr	Ala	Gln	Gln	Gly	Ala	Asn	Ser	Ala	Thr	Phe	Glu
			900					905					910		
Gln	Leu	Arg	Glu	Val	Ile	Ala	Thr	Glu	Thr	Glu	Ala	Arg	Val	Thr	Asp
		915					920					925			
Val	Thr	Arg	Leu	Glu	Ala	Lys	Thr	Ala	Gln	Asn	Glu	Ala	Gly	Val	Thr
	930					935					940				
Glu	Val	Arg	Gln	Ala	Leu	Ser	Asp	Glu	Ala	Gln	Ala	Arg	Ala	Thr	Ala
945					950					955					960
Val	Asp	Gln	Leu	Thr	Ala	Ser	Thr	Gln	Val	Ile	Ser	Asp	Lys	Ala	Asp
			965					970						975	
Ser	Ala	Ser	Ser	Lys	Ala	Asp	Ala	Ala	Ser	Gly	Lys	Ala	Asp	Ala	Ala
		980					985					990			
Glu	Gln	Ala	Ser	Ser	Gln	Asn	Thr	Ala	Asp	Ile	Thr	Thr	Leu	Arg	Gln
		995					1000					1005			
Val	Val	Thr	Asp	Thr	Thr	Ser	Ser	Met	Ala	Ser	Arg	Leu	Glu	Glu	Leu
	1010					1015					1020				
Gly	Ala	Arg	Thr	Asp	Thr	Ala	Ser	Gly	Gly	Ile	Gln	Asn	Asn	Ala	Ile
1025					1030					1035					1040
Ala	Leu	Ile	Thr	Ser	Thr	Leu	Ala	Gln	Val	Asp	Gln	Arg	Val	Arg	Leu
			1045					1050						1055	
Ser	Ala	Gln	Tyr	Gly	Asp	Ser	Lys	Ala	Ser	Ile	Asp	Arg	Leu	Asp	Asn
		1060					1065					1070			
Val	Met	Ala	Ser	Asp	Arg	Glu	Ala	Thr	Ala	Arg	Ser	Leu	Leu	Ser	Leu
	1075						1080					1085			
Gln	Thr	Asp	Val	Asn	Gly	Asn	Lys	Ala	Ser	Ile	Asn	Ser	Leu	Asn	Gln
	1090					1095					1100				
Thr	Phe	Ser	Asp	Tyr	Gln	Gln	Ala	Thr	Ala	Thr	Gln	Ile	Asn	Gly	Ile
1105					1110					1115					1120
Thr	Ala	Thr	Ile	Asn	Gly	His	Thr	Ser	Ala	Ile	Thr	Thr	Asn	Ala	Gln

```
<210> 8277
<211> 202
<212> PRT
<213> Enterobacter cloacae
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```
<210> 8278
<211> 181
<212> PRT
<213> Enterobacter cloacae
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<400> 8278

Ile Arg Tyr Arg Arg Arg Val Met Ser Ile Ile Leu Gly Ile Asp Pro
 1 5 10 15
 Gly Ser Arg Val Thr Gly Tyr Gly Val Ile Arg Gln Val Gly Arg Gln
 20 25 30
 Leu Thr Tyr Leu Gly Ser Gly Cys Ile Arg Thr Lys Val Asp Asp Leu
 35 40 45
 Pro Ser Arg Leu Lys Leu Ile Tyr Ala Gly Val Ser Glu Ile Ile Thr
 50 55 60
 Gln Phe Gln Pro Asp Tyr Phe Ala Ile Glu Gln Val Phe Met Ala Lys
 65 70 75 80
 Asn Ala Asp Ser Ala Leu Lys Leu Gly Gln Ala Arg Gly Val Ala Ile
 85 90 95
 Val Ala Ala Val Asn Gln Asp Leu Pro Val Phe Glu Tyr Ala Ala Arg
 100 105 110
 Gln Val Lys Gln Thr Val Val Gly Ile Gly Ser Ala Glu Lys Ser Gln
 115 120 125
 Val Gln His Met Val Arg Thr Leu Leu Lys Leu Pro Ala Asn Pro Gln
 130 135 140
 Ala Asp Ala Ala Asp Ala Leu Ala Ile Ala Ile Thr His Cys His Val
 145 150 155 160
 Ser Gln Asn Ala Met Gln Met Ser Glu Ser Arg Leu Asn Leu Ala Arg
 165 170 175
 Gly Arg Leu Arg
 180

<210> 8279

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 8279

Val Phe Cys Arg Ala Ser Asp Ser Ala Thr Arg Gln Lys Gly Arg Gly
 1 5 10 15
 Ala Gly Arg Met Arg Pro Lys His Phe Gln Glu Lys Leu Lys Ser Ser
 20 25 30
 Cys Gln Phe Lys Leu Ala Glu Val Ile Glu Cys Tyr Asn Ile Thr Phe
 35 40 45
 His Ala Phe Ile Thr Met Ile Ser Arg Ile Met Leu Gln Lys Asn Thr
 50 55 60
 Leu Leu Phe Ala Ala Leu Ser Ala Ala Leu Trp Gly Thr Thr Ala Gln
 65 70 75 80
 Asp Val Asn Ala Ala Val Val Ala Ser Leu Lys Pro Leu Gly Phe Ile
 85 90 95
 Ala Ser Ala Ile Ala Asp Gly Ile Thr Glu Thr Gln Val Leu Leu Pro
 100 105 110
 Asp Gly Ala Ser Glu His Asp Tyr Ser Leu Arg Pro Ser Asp Val Lys
 115 120 125
 Arg Leu Gln Asn Ala Asp Leu Val Val Trp Ile Gly Pro Glu Met Glu
 130 135 140
 Gly Ser Ile Arg Ser Pro Ser Val Asp Gly Gly Ser Ala Ile Val
 145 150 155

<210> 8280

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 8280

Ala Leu Arg Leu Met Ala Arg Gly Ile Leu Pro Asp Ile Tyr Pro Arg
 1 5 10 15
 Gln Gln Glu Ile Tyr Pro Gln Gln Tyr Ile His Thr Gly Ile Pro Ser

```
<210> 8281
<211> 607
<212> PRT
<213> Enterobacter cloacae
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Pro	Ala	Arg	Gln	Ala	Thr	Ile	Ser	Leu	Arg	Leu	Ile	Lys	Gly	Tyr	Leu
1				5					10					15	
Met	Arg	Thr	Glu	Tyr	Cys	Gly	Gln	Leu	Arg	Gln	Ser	His	Val	Gly	Gln
			20					25					30		
Gln	Val	Thr	Leu	Cys	Gly	Trp	Val	Asn	Arg	Arg	Arg	Asp	Leu	Gly	Ser
			35				40					45			
Leu	Ile	Phe	Ile	Asp	Met	Arg	Asp	Arg	Glu	Gly	Ile	Val	Gln	Val	Phe
	50					55					60				
Phe	Asp	Pro	Asp	Arg	Ala	Asp	Ala	Leu	Lys	Leu	Ala	Ser	Glu	Leu	Arg
65					70					75					80
Asn	Glu	Phe	Cys	Ile	Gln	Val	Thr	Gly	Thr	Val	Arg	Ala	Arg	Asp	Glu
				85					90					95	
Lys	Asn	Val	Asn	Ala	Asp	Met	Ala	Thr	Gly	Ala	Ile	Glu	Val	Leu	Ala
			100					105					110		
Ser	Asp	Leu	Thr	Ile	Ile	Asn	Arg	Ala	Glu	Ala	Leu	Pro	Leu	Asp	Ser
			115				120					125			
Asn	His	Val	Asn	Thr	Glu	Glu	Ala	Arg	Leu	Lys	Tyr	Arg	Tyr	Leu	Asp
	130					135					140				
Leu	Arg	Arg	Pro	Glu	Met	Ala	Gln	Arg	Leu	Lys	Thr	Arg	Ala	Lys	Ile
145					150					155					160
Thr	Ser	Leu	Val	Arg	Arg	Phe	Met	Asp	Asp	His	Gly	Phe	Leu	Asp	Ile

```
<210> 8282
<211> 338
<212> PRT
<213> Enterobacter cloacae
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<400> 8282

Arg Met Ile Glu Ala Asp Arg Leu Val Ser Ala Gly Thr Ile Gln Pro
 1 5 10 15
 Asp Asp Val Val Asp Arg Ala Ile Arg Pro Lys Leu Leu Asp Glu Tyr
 20 25 30
 Ile Gly Gln Pro Gln Val Arg Ser Gln Met Glu Ile Phe Ile Gln Ala
 35 40 45
 Ala Lys Leu Arg Gly Asp Ala Leu Asp His Leu Leu Ile Phe Gly Pro
 50 55 60
 Pro Gly Leu Gly Lys Thr Thr Leu Ala Asn Ile Val Ala Asn Glu Met
 65 70 75 80
 Gly Val Asn Leu Arg Thr Thr Ser Gly Pro Val Leu Glu Lys Ala Gly
 85 90 95
 Asp Leu Ala Ala Met Leu Thr Asn Leu Glu Pro His Asp Val Leu Phe
 100 105 110
 Ile Asp Glu Ile His Arg Leu Ser Pro Val Val Glu Glu Val Leu Tyr
 115 120 125
 Pro Ala Met Glu Asp Tyr Gln Leu Asp Ile Met Ile Gly Glu Gly Pro
 130 135 140
 Ala Ala Arg Ser Ile Lys Ile Asp Leu Pro Pro Phe Thr Leu Ile Gly
 145 150 155 160
 Ala Thr Thr Arg Ala Gly Ser Leu Thr Ser Pro Leu Arg Asp Arg Phe
 165 170 175
 Gly Ile Val Gln Arg Leu Glu Phe Tyr Gln Val Pro Asp Leu Gln His
 180 185 190
 Ile Val Gly Arg Ser Ala Arg Tyr Met Gly Leu Asp Met Ser Glu Glu
 195 200 205
 Gly Ala Phe Glu Val Ala Lys Arg Ser Arg Gly Thr Pro Arg Ile Ala
 210 215 220
 Asn Arg Leu Leu Arg Arg Val Arg Asp Phe Ala Glu Val Lys His Asp
 225 230 235 240
 Gly Thr Ile Ser Ala Glu Ile Ala Ala Gln Ala Leu Asp Met Leu Asn
 245 250 255
 Val Asp Ala Glu Gly Phe Asp Tyr Met Asp Arg Lys Leu Leu Leu Ala
 260 265 270
 Val Leu Asp Lys Phe Phe Gly Gly Pro Val Gly Leu Asp Asn Leu Ala
 275 280 285
 Ala Ala Ile Gly Glu Glu Arg Glu Thr Ile Glu Asp Val Leu Glu Pro
 290 295 300
 Tyr Leu Ile Gln Gln Gly Phe Leu Gln Arg Thr Pro Arg Gly Arg Met
 305 310 315 320
 Ala Thr Val Arg Ala Trp Asn His Phe Gly Ile Thr Pro Pro Ala Met
 325 330 335
 Pro

<210> 8283

<211> 197

<212> PRT

<213> Enterobacter cloacae

<400> 8283

Arg Arg Gln Arg Thr Thr Asp Arg Arg Ala Gly Ser Gly Pro Gly Ser
 1 5 10 15
 Gly Arg Thr Asp Pro Asp Gly Arg Thr Gly Asp Ser Gln Pro Asp Asp
 20 25 30
 Gly Ala Gly Thr Gly Arg Pro Val Val Pro Leu Pro Asp Asp Gly Arg
 35 40 45
 Arg Val Glu Ala Arg Gly Ala Asp Leu Gln Gln Gly Cys Glu Ala Ala
 50 55 60
 Phe Leu Leu Arg Arg Val Arg Thr Arg Arg Cys Ala Met Ser Ala Tyr

65					70					75					80
Thr	Val	Ser	Gln	Leu	Ala	His	Asn	Ala	Gly	Val	Ser	Val	His	Ile	Val
				85					90					95	
Arg	Asp	Tyr	Leu	Val	Arg	Gly	Leu	Leu	Arg	Pro	Val	Ala	Cys	Thr	Thr
			100					105					110		
Gly	Gly	Tyr	Gly	Val	Phe	Asp	Asp	Ala	Ala	Leu	Gln	Arg	Leu	Cys	Phe
		115					120					125			
Val	Arg	Ala	Ala	Phe	Glu	Ala	Gly	Ile	Gly	Leu	Asp	Ala	Leu	Ala	Arg
		130				135					140				
Leu	Cys	Arg	Ala	Leu	Asp	Ala	Ala	Asp	Gly	Ala	Gln	Ala	Ala	Ala	Gln
145					150					155					160
Leu	Ala	Val	Leu	Arg	Gln	Leu	Val	Glu	Arg	Arg	Ala	Ala	Leu	Ala	
			165						170					175	
His	Leu	Asp	Ala	Gln	Leu	Ala	Ser	Met	Pro	Ala	Glu	Arg	Ala	His	Glu
		180						185					190		
Glu	Ala	Leu	Pro												
		195													

<210> 8284

<211> 441

<212> PRT

<213> Enterobacter cloacae

<400> 8284

Ser	Ala	Pro	Ile	Ser	Thr	Met	Leu	Asn	Thr	Arg	Val	His	Gln	Ser	Glu
1				5					10					15	
Val	Ser	Met	Ala	Ala	Asp	Thr	Pro	Arg	Ile	Pro	Glu	Gln	Gly	Val	Ala
			20					25					30		
Thr	Leu	Pro	Asp	Glu	Ala	Trp	Glu	Arg	Ala	Arg	Arg	Arg	Ala	Glu	Ile
		35					40					45			
Ile	Ser	Pro	Leu	Ala	Gln	Ser	Glu	Thr	Val	Gly	His	Glu	Ala	Ala	Asp
	50					55					60				
Met	Ala	Ala	Gln	Ala	Leu	Gly	Leu	Ser	Arg	Arg	Gln	Val	Tyr	Val	Leu
65				70					75						80
Ile	Arg	Arg	Ala	Arg	Gln	Gly	Ser	Gly	Leu	Val	Thr	Asp	Leu	Val	Pro
			85					90						95	
Gly	Gln	Ser	Gly	Gly	Gly	Lys	Gly	Lys	Gly	Arg	Leu	Pro	Glu	Pro	Val
		100					105						110		
Glu	Arg	Val	Ile	His	Glu	Leu	Leu	Gln	Lys	Arg	Phe	Leu	Thr	Lys	Gln
		115					120					125			
Lys	Arg	Ser	Leu	Ala	Ala	Phe	His	Arg	Glu	Val	Thr	Gln	Val	Cys	Lys
		130			135						140				
Ala	Gln	Lys	Leu	Arg	Val	Pro	Ala	Arg	Asn	Thr	Val	Ala	Leu	Arg	Ile
145				150					155						160
Ala	Ser	Leu	Asp	Pro	Arg	Lys	Val	Ile	Arg	Arg	Arg	Glu	Gly	Gln	Asp
			165					170						175	
Ala	Ala	Arg	Asp	Leu	Gln	Gly	Val	Gly	Gly	Glu	Pro	Pro	Ala	Val	Thr
		180					185						190		
Ala	Pro	Leu	Glu	Gln	Val	Gln	Ile	Asp	His	Thr	Val	Ile	Asp	Leu	Ile
		195					200					205			
Val	Val	Asp	Asp	Arg	Asp	Arg	Gln	Pro	Ile	Gly	Arg	Pro	Tyr	Leu	Thr
	210				215						220				
Leu	Ala	Ile	Asp	Val	Phe	Thr	Arg	Cys	Val	Leu	Gly	Met	Val	Val	Thr
225				230					235						240
Leu	Glu	Ala	Pro	Ser	Ala	Val	Ser	Val	Gly	Leu	Cys	Leu	Val	His	Val
			245						250					255	
Ala	Cys	Asp	Lys	Arg	Pro	Trp	Leu	Glu	Gly	Leu	Asn	Val	Glu	Met	Asp
		260					265					270			
Trp	Gln	Met	Ser	Gly	Lys	Pro	Leu	Leu	Leu	Tyr	Leu	Asp	Asn	Ala	Ala
		275				280						285			
Glu	Phe	Lys	Ser	Glu	Ala	Leu	Arg	Arg	Gly	Cys	Glu	Gln	His	Gly	Ile

290	295	300
Arg Leu Asp Tyr Arg	Pro Leu Gly Gln Pro His	Tyr Gly Gly Ile Val
305	310	315
Glu Arg Ile Ile Gly	Thr Ala Met Gln Met Ile	His Asp Glu Leu Pro
	325	330
Gly Thr Thr Phe Ser	Asn Pro Asp Gln Arg	Gly Asp Tyr Asp Ser Glu
	340	345
Asn Lys Ala Ala Leu	Thr Leu Arg Glu Leu	Glu Arg Trp Leu Thr Leu
	355	360
Ala Val Gly Thr Tyr	His Gly Ser Val His	Asn Gly Leu Leu Gln Pro
	370	375
Pro Ala Ala Arg Trp	Ala Glu Ala Val Ala	Arg Val Gly Val Pro Ala
385	390	395
Val Val Thr Arg Ala	Thr Ser Phe Leu Val	Asp Phe Leu Pro Ile Leu
	405	410
Arg Arg Thr Leu Thr	Arg Thr Gly Phe Val	Ile Asp His Ile His Tyr
	420	425
Tyr Ala Asp Gly His	Cys Cys Lys	
	435	440

<210> 8285

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 8285

Asn Val Arg Pro Leu	Asn Lys Thr Lys Gly Cys Leu Ile Ala Asn Phe
1	5 10 15
Ala Thr Val Pro Ala	Asp Ala Leu Lys Pro Trp Ile Ala Arg Arg Glu
	20 25 30
Arg Trp Pro Ser Phe	Leu Ile Arg Asp Pro Arg Asp Ile Ser Arg
	35 40 45
Ile Trp Val Leu Glu	Pro Glu Gly Gln His Tyr Leu Glu Ile Pro Tyr
	50 55 60
Arg Thr Leu Ser His	Pro Ala Val Thr Leu Trp Glu Gln Arg Gln Ala
	65 70 75 80
Leu Ala Lys Leu Arg	Gln Gln Gly Arg Glu Gln Val Asp Glu Ser Ala
	85 90 95
Leu Phe Arg Met Ile	Gly Gln Met Arg Glu Ile Val Thr Ser Ala Gln
	100 105 110
Lys Ala Thr Arg Lys	Ala Arg Arg Asp Ala Asp Arg Arg Gln His Leu
	115 120 125
Lys Thr Ser Ala Arg	Pro Asp Lys Pro Val Pro Pro Asp Thr Asp Ile
	130 135 140
Ala Asp Pro Gln Ala	Asp Asn Leu Pro Pro Ala Lys Pro Phe Asp Gln
	145 150 155 160
Ile Glu Glu Trp	
	165

<210> 8286

<211> 521

<212> PRT

<213> Enterobacter cloacae

<400> 8286

His Cys Phe Pro Ser	Gly Tyr Gly Gly Arg Asn Gln Gly Val Ile Asn
1	5 10 15
Val Ala Ile Leu Ser	Ala Ile Arg Arg Trp His Phe Arg Asp Gly Ala
	20 25 30
Ser Ile Arg Glu Ile	Ala Arg Arg Ser Gly Leu Ser Arg Asn Thr Val
	35 40 45

Arg 50	Lys	Tyr	Leu	Gln	Ser	Lys 55	Val	Val	Glu	Pro	Gln 60	Tyr	Pro	Ala	Arg
Asp 65	Ser	Val	Gly	Lys	Leu 70	Ser	Pro	Phe	Glu	Pro 75	Lys	Leu	Arg	Gln	Trp 80
Leu	Ser	Thr	Glu	His 85	Lys	Lys	Thr	Lys	Lys 90	Leu	Arg	Arg	Asn	Leu 95	Arg
Ser	Met	Tyr	Arg 100	Asp	Leu	Val	Ala	Leu 105	Gly	Phe	Thr	Gly	Ser 110	Tyr	Asp
Arg	Val	Cys 115	Ala	Phe	Ala	Arg	Gln 120	Trp	Lys	Asp	Ser	Glu 125	Gln	Phe	Lys
Ala 130	Gln	Thr	Ser	Gly	Lys	Gly 135	Cys	Phe	Ile	Pro	Leu 140	Arg	Phe	Ala	Cys
Gly 145	Glu	Ala	Phe	Gln	Phe 150	Asp	Trp	Ser	Glu	Asp 155	Phe	Ala	Arg	Ile	Ala 160
Gly	Lys	Gln	Val	Lys 165	Leu	Gln	Ile	Ala	Gln 170	Phe	Lys	Leu	Ala	His 175	Ser
Arg	Ala	Phe	Val 180	Leu	Arg	Ala	Tyr	Tyr 185	Gln	Gln	Lys	His	Glu 190	Met	Leu
Phe	Asp	Ala 195	His	Trp	His	Ala	Phe 200	Gln	Ile	Phe	Gly 205	Gly	Ile	Pro	Lys
Arg	Gly 210	Ile	Tyr	Asp	Asn 215	Met	Lys	Thr	Ala	Val	Asp 220	Ser	Val	Gly	Arg
Gly 225	Lys	Glu	Arg	Arg	Val 230	Asn	Gln	Arg	Phe	Thr 235	Ala	Met	Val	Ser	His 240
Tyr	Leu	Phe	Asp 245	Ala	Gln	Phe	Cys	Asn	Pro 250	Ala	Ser	Gly	Trp	Glu 255	Lys
Gly	Gln	Ile	Glu 260	Lys	Asn	Val	Gln	Asp 265	Ser	Arg	Gln	Arg	Leu 270	Trp	Gln
Gly	Ala	Pro 275	Asp	Phe	Gln	Ser	Leu 280	Ala	Asp	Leu	Asn	Val 285	Trp	Leu	Glu
His	Arg 290	Cys	Lys	Ala	Leu	Trp 295	Ser	Glu	Leu	Arg	His 300	Pro	Glu	Leu	Asp
Gln 305	Thr	Val	Gln	Glu	Ala 310	Phe	Ala	Asp	Glu	Gln 315	Gly	Glu	Leu	Met	Ala 320
Leu	Pro	Asn	Ala 325	Phe	Asp	Ala	Phe	Val	Glu 330	Gln	Thr	Lys	Arg	Val 335	Thr
Ser	Thr	Cys	Leu 340	Val	His	His	Glu	Gly 345	Asn	Arg	Tyr	Ser	Val 350	Pro	Ala
Ser	Tyr	Ala 355	Asn	Arg	Ala	Ile	Ser	Leu 360	Arg	Ile	Tyr	Ala 365	Asp	Lys	Leu
Val	Met	Ala 370	Ala	Glu	Gly 375	Gln	His	Ile	Ala	Glu	His 380	Pro	Arg	Leu	Phe
Gly 385	Ser	Gly	His	Ala	Arg 390	Arg	Gly	His	Thr	Gln 395	Tyr	Asp	Trp	His	His 400
Tyr	Leu	Ser	Val 405	Leu	Gln	Lys	Lys	Pro	Gly 410	Ala	Leu	Arg	Asn	Gly 415	Ala
Pro	Phe	Ala	Glu 420	Leu	Pro	Pro	Ala	Phe 425	Lys	Lys	Leu	Gln	Ser	Ile 430	Leu
Leu	Gln	Arg 435	Pro	Gly	Gly	Asp	Arg 440	Asp	Met	Val	Glu	Ile 445	Leu	Ala	Leu
Val	Leu	His 450	His	Asp	Glu	Gly 455	Ala	Val	Leu	Ser	Ala 460	Val	Glu	Leu	Ala
Leu 465	Glu	Cys	Gly	Lys	Pro 470	Ser	Lys	Glu	His	Val 475	Leu	Asn	Leu	Leu	Gly 480
Arg	Leu	Thr	Glu 485	Glu	Pro	Pro	Pro	Lys	Pro 490	Ile	Pro	Ile	Pro	Lys 495	Gly
Leu	Arg	Leu 500	Thr	Leu	Glu	Pro	Gln	Ala 505	Asn	Val	Asn	Arg	Tyr 510	Asp	Ser
Leu	Arg	Arg 515	Ala	His	Asp	Ala	Ala 520								

<210> 8287
 <211> 340
 <212> PRT
 <213> Enterobacter cloacae

<400> 8287

Gln	Ala	Met	Lys	Thr	Ala	Thr	Ala	Pro	Leu	Pro	Pro	Leu	Arg	Ser	Val
1				5					10					15	
Lys	Val	Leu	Asp	Gln	Leu	Arg	Glu	Arg	Ile	Arg	Tyr	Leu	His	Tyr	Ser
			20				25						30		
Leu	Pro	Thr	Glu	Gln	Ala	Tyr	Val	His	Trp	Val	Arg	Ala	Phe	Ile	Arg
		35					40					45			
Phe	His	Gly	Val	Arg	His	Pro	Ala	Thr	Leu	Gly	Ser	Ser	Glu	Val	Glu
	50					55					60				
Ala	Phe	Leu	Ser	Trp	Leu	Ala	Asn	Glu	Arg	Lys	Val	Ser	Val	Ser	Thr
65					70					75					80
His	Arg	Gln	Ala	Leu	Ala	Ala	Leu	Leu	Phe	Phe	Tyr	Gly	Lys	Val	Leu
				85					90					95	
Cys	Thr	Asp	Leu	Pro	Trp	Leu	Gln	Glu	Ile	Gly	Arg	Pro	Arg	Pro	Ser
			100					105					110		
Arg	Arg	Leu	Pro	Val	Val	Leu	Thr	Pro	Asp	Glu	Val	Val	Arg	Ile	Leu
		115					120					125			
Gly	Phe	Leu	Glu	Gly	Glu	His	Arg	Leu	Phe	Ala	Gln	Leu	Leu	Tyr	Gly
	130					135					140				
Thr	Gly	Met	Arg	Ile	Ser	Glu	Gly	Leu	Gln	Leu	Arg	Val	Lys	Asp	Leu
145					150					155					160
Asp	Phe	Asp	His	Gly	Thr	Ile	Ile	Val	Arg	Glu	Gly	Lys	Gly	Ser	Lys
			165						170					175	
Asp	Arg	Ala	Leu	Met	Leu	Pro	Glu	Ser	Leu	Ala	Pro	Ser	Leu	Arg	Glu
		180						185					190		
Gln	Leu	Ser	Arg	Ala	Arg	Ala	Trp	Trp	Leu	Lys	Asp	Gln	Ala	Glu	Gly
		195					200					205			
Arg	Ser	Gly	Val	Ala	Leu	Pro	Asp	Ala	Leu	Glu	Arg	Lys	Tyr	Pro	Arg
	210					215					220				
Ala	Gly	His	Ser	Trp	Pro	Trp	Phe	Trp	Val	Phe	Ala	Gln	His	Thr	His
225					230					235					240
Ser	Thr	Asp	Pro	Arg	Ser	Gly	Val	Val	Arg	Arg	His	His	Met	Tyr	Asp
			245						250					255	
Gln	Thr	Phe	Gln	Arg	Ala	Phe	Lys	Arg	Ala	Val	Glu	Gln	Ala	Gly	Ile
		260						265					270		
Thr	Lys	Pro	Ala	Thr	Pro	His	Thr	Leu	Arg	His	Ser	Phe	Ala	Thr	Ala
		275					280					285			
Leu	Leu	Arg	Ser	Gly	Tyr	Asp	Ile	Arg	Thr	Val	Gln	Asp	Leu	Leu	Gly
	290					295					300				
His	Ser	Asp	Val	Ser	Thr	Thr	Met	Ile	Tyr	Thr	His	Val	Leu	Lys	Val
305					310					315					320
Gly	Gly	Ala	Gly	Val	Arg	Ser	Pro	Leu	Asp	Ala	Leu	Pro	Pro	Leu	Thr
			325						330					335	
Ser	Glu	Arg													
															340

<210> 8288
 <211> 170
 <212> PRT
 <213> Enterobacter cloacae

<400> 8288

Thr	Ser	Val	Glu	His	Ile	Tyr	Ala	Ala	Gly	Asp	Cys	Thr	Asp	Gln	Pro
1				5					10					15	
Gln	Phe	Val	Tyr	Val	Ala	Ala	Ala	Ala	Gly	Thr	Arg	Ala	Ala	Ile	Asn
		20						25					30		

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Met Thr Gly Gly Asp Ala Ala Leu Asn Leu Thr Ala Met Pro Ala Val
      35      40      45
Val Phe Thr Asp Pro Gln Val Ala Thr Val Gly Tyr Ser Glu Ala Glu
      50      55      60
Ala His His Asp Gly Ile Lys Thr Asp Ser Arg Thr Leu Thr Leu Asp
65      70      75      80
Asn Val Pro Arg Ala Leu Ala Asn Phe Asp Thr Arg Gly Phe Ile Lys
      85      90      95
Leu Val Val Glu Glu Gly Ser Gly Arg Leu Ile Gly Val Gln Ala Val
      100      105      110
Ala Pro Glu Ala Gly Glu Leu Ile Gln Thr Ala Ala Leu Ala Ile Arg
      115      120      125
Asn Arg Met Thr Val Gln Glu Leu Ala Asp Gln Leu Phe Pro Tyr Leu
      130      135      140
Thr Met Val Glu Gly Leu Lys Leu Ala Ala Gln Thr Phe Asn Lys Asp
145      150      155      160
Val Lys Gln Leu Ser Cys Cys Ala Gly
      165      170

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<210> 8289

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 8289

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Gln Thr Ala Ala Arg Asp Ala Pro Thr Arg Phe Arg Leu Pro Val Gly
1      5      10      15
Cys Ala Gly Arg Val Asp Leu Pro Leu Pro Ser Ala Asp Ser Arg Arg
      20      25      30
Arg Ala Gly Arg Asp Asp Arg Arg Cys Leu Pro Trp Arg Ala Leu Gly
      35      40      45
Cys Cys Arg Ala Arg Ala Asp Arg Leu Val Arg Ser Gly Arg Asn Ala
50      55      60
Ala Ala Ala Arg Leu Pro Gly Arg Ile Met Thr Ser Ser Gln Pro Ala
65      70      75      80
Gly Trp Thr Ala Ala Glu Leu Ala Gln Ala Ala Ala Arg Gly Gln Leu
      85      90      95
Asp Leu His Tyr Gln Pro Leu Val Asp Leu Arg Asp His Arg Ile Ala
      100      105      110
Gly Ala Glu Ala Leu Met Arg Trp Arg His Pro Arg Leu Gly Leu Leu
      115      120      125
Pro Pro Gly Gln Phe Leu Pro Leu Ala Glu Ser Phe Gly Leu Met Pro
      130      135      140
Glu Ile Gly Ala Trp Val Leu Gly Glu Ala Cys Arg Gln Met His Lys
145      150      155      160
Trp Gln Gly Pro Ala Trp Gln Pro Phe Arg Leu Ala Ile Asn Val Ser
      165      170      175
Ala Ser Gln Val Gly Pro Thr Phe Asp Asp Glu Val Lys Arg Val Leu
      180      185      190
Ala Asp Met Ala Leu Pro Ala Glu Leu Leu Glu Ile Glu Leu Thr Glu
      195      200      205
Ser Val Ala Phe Gly Asn Pro Ala Leu Phe Ala Ser Phe Asp Ala Leu
      210      215      220
Arg Ala Ile Gly Val Arg Phe Ala Ala Asp Asp Phe Gly Thr Gly Tyr
225      230      235      240
Ser Cys Leu Gln His Leu Lys Cys Cys Pro Ile Thr Thr Leu Lys Ile
      245      250      255
Asp Gln Ser Phe Val Ala Arg Leu Pro Asp Asp Ala Arg Asp Gln Thr
260      265      270
Ile Val Arg Ala Val Ile Gln Leu Ala His Gly Leu Gly Met Asp Val
      275      280      285

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Ile Phe Arg Arg Arg Leu His Gln Leu Ile Gly Arg Asn Gly Cys Cys
 290 295 300
 Ala Ala Ser Ser
 305

<210> 8290

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 8290

Thr Tyr His Pro Leu Leu Met Glu Leu His Met Asn Pro Phe Lys
 1 5 10 15
 Gly Arg His Phe Gln Arg Asp Ile Ile Leu Trp Ala Val Arg Trp Tyr
 20 25 30
 Cys Lys Tyr Gly Ile Ser Tyr Arg Glu Leu Gln Glu Met Leu Ala Glu
 35 40 45
 Arg Gly Val Asn Val Asp His Ser Thr Ile Tyr Arg Trp Val Gln Arg
 50 55 60
 Tyr Ala Pro Glu Met Glu Lys Arg Leu Arg Trp Tyr Trp Arg Asn Pro
 65 70 75 80
 Ser Asp Leu Cys Pro Trp His Met Asp Glu Thr Tyr Val Lys Val Asn
 85 90 95
 Gly Arg Trp Ala Tyr Leu Tyr Arg Ala Val Asp Ser Arg Gly Arg Thr
 100 105 110
 Val Asp Phe Tyr Leu Ser Ser Arg Arg Asn Ser Lys Ala Ala Tyr Arg
 115 120 125
 Phe Leu Gly Lys Ile Leu Asn Asn Val Lys Lys Trp Gln Ile Pro Arg
 130 135 140
 Phe Ile Asn Thr Asp Lys Ala Pro Ala Tyr Gly Arg Ala Leu Ala Leu
 145 150 155 160
 Leu Lys Arg Glu Gly Arg Cys Pro Ser Asp Val Glu His Arg Gln Ile
 165 170 175
 Lys Tyr Arg Asn Asn Val Ile Glu Cys Asp His Gly Lys Leu Lys Arg
 180 185 190
 Ile Ile Gly Ala Thr Leu Gly Phe Lys Ser Met Lys Thr Ala Tyr Ala
 195 200 205
 Thr Ile Lys Gly Ile Glu Val Met Arg Ala Leu Arg Lys Gly Gln Ala
 210 215 220
 Ser Ala Phe Tyr Tyr Gly Asp Pro Leu Gly Glu Met Arg Leu Val Ser
 225 230 235 240
 Arg Val Phe Glu Met
 245

<210> 8291

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 8291

Pro Val Gly Lys Ser Leu Arg Ala Asp Asp Ala Ala Gly Met Gly Gly
 1 5 10 15
 Gln Arg Arg Leu Leu Leu Thr Ala Gly Gln Leu Arg Arg Phe Ala Pro
 20 25 30
 Ala Ala Pro Ala Phe Pro Asn Cys His Ala Gly His Gly Ser Leu Pro
 35 40 45
 Ala His Thr Gln Arg Gly His His Arg Gly Thr Gly Ala Leu Ala Asp
 50 55 60
 Gly Gly Gly His Arg Arg Gly Glu Arg Arg Gly Ser Asp Gln Pro
 65 70 75 80
 Ser His Thr Gln His Gly Leu Leu Ser Cys Ile

85

90

<210> 8292
 <211> 68
 <212> PRT
 <213> Enterobacter cloacae

<400> 8292
 Arg Pro Leu Trp Ile Arg Trp Gly Val Ala Lys Ser Ala Gly Ser Ile
 1 5 10 15
 Ser Gly Ser Leu Pro Trp Ser Ala Thr Thr Cys Leu Met Arg Ser Ser
 20 25 30
 Val Ile Gln His Arg Val Gly Arg Lys Ala Arg Leu Arg Arg Thr Cys
 35 40 45
 Arg Ile Pro Ala Asn Ala Cys Gly Lys Gly His Gln Thr Phe Lys Ala
 50 55 60
 Leu Leu Ile
 65

<210> 8293
 <211> 265
 <212> PRT
 <213> Enterobacter cloacae

<400> 8293
 Gly Glu Pro Met Met Gln His Glu Gly His Val Arg Ile Leu Lys Ser
 1 5 10 15
 Leu Lys Leu Phe Gly Met Ala His Ala Ile Glu Glu Leu Gly Asn Gln
 20 25 30
 Asn Ser Pro Ala Phe Asn Gln Ala Leu Pro Met Leu Asp Ser Leu Ile
 35 40 45
 Lys Ala Glu Val Ala Glu Arg Glu Val Arg Ser Val Asn Tyr Gln Leu
 50 55 60
 Arg Val Ala Lys Phe Pro Val Tyr Arg Asp Leu Val Gly Phe Asp Phe
 65 70 75 80
 Ser Gln Ser Leu Val Asn Glu Ala Thr Val Lys Gln Leu His Arg Cys
 85 90 95
 Asp Phe Met Glu Gln Ala Gln Asn Val Val Leu Ile Gly Gly Pro Gly
 100 105 110
 Thr Gly Lys Thr His Leu Ala Thr Ala Ile Gly Thr Gln Ala Val Met
 115 120 125
 His Leu Asn Arg Arg Val Arg Phe Phe Ser Thr Val Asp Leu Val Asn
 130 135 140
 Ala Leu Glu Gln Glu Lys Ser Ser Gly Arg Gln Gly Gln Ile Ala Asn
 145 150 155 160
 Arg Leu Leu Tyr Ala Asp Leu Val Ile Leu Asp Glu Leu Gly Tyr Leu
 165 170 175
 Pro Phe Ser Gln Thr Gly Gly Ala Leu Leu Phe His Leu Leu Ser Lys
 180 185 190
 Leu Tyr Glu Lys Thr Ser Val Ile Leu Thr Thr Asn Leu Ser Phe Ser
 195 200 205
 Glu Trp Ser Arg Val Phe Gly Asp Glu Lys Met Thr Thr Ala Leu Leu
 210 215 220
 Asp Arg Leu Thr His His Cys His Ile Leu Glu Thr Gly Asn Glu Ser
 225 230 235 240
 Tyr Arg Phe Lys His Ser Ser Thr Gln Asn Lys Gln Glu Glu Lys Gln
 245 250 255
 Thr Arg Lys Leu Lys Ile Glu Thr
 260 265

<210> 8294

<211> 116
 <212> PRT
 <213> Enterobacter cloacae

<400> 8294

Lys	Pro	Pro	Leu	Arg	Arg	Tyr	His	Arg	Cys	Val	Arg	Ser	Arg	Phe	Trp
1				5					10					15	
Thr	Ser	Cys	Val	Ser	Ala	Tyr	Ala	Thr	Cys	Ile	Thr	Ala	Tyr	Gln	Pro
			20					25					30		
Asn	Arg	Leu	Met	Ser	Thr	Gly	Phe	Val	Pro	Ser	Ser	Val	Ser	Thr	Val
		35					40					45			
Cys	Val	Thr	Arg	Gln	Pro	Trp	Ala	Ala	Ala	Lys	Ser	Arg	His	Phe	Cys
	50					55					60				
Pro	Gly	Trp	Arg	Thr	Ser	Ala	Arg	Phe	Arg	Ser	Pro	Arg	Ile	Val	Arg
65					70					75					80
His	Trp	Arg	Pro	Cys	Cys	Ser	Ser	Thr	Ala	Arg	Cys	Cys	Ala	Arg	Ile
				85					90					95	
Cys	Pro	Gly	Phe	Arg	Arg	Ser	Glu	Asp	Leu	Ala	Arg	Arg	Gly	Ala	Cys
			100					105					110		
Arg	Trp	Cys													
		115													

<210> 8295
 <211> 1008
 <212> PRT
 <213> Enterobacter cloacae

<400> 8295

Leu	Arg	His	Gln	Pro	Arg	Asn	Leu	Val	Pro	Val	Pro	Ala	Gly	Arg	Leu
1				5					10					15	
Thr	Met	Pro	Arg	Arg	Ser	Ile	Leu	Ser	Ala	Thr	Glu	Arg	Glu	Ser	Leu
			20					25					30		
Leu	Ala	Leu	Pro	Asp	Ala	Lys	Asp	Glu	Leu	Ile	Arg	His	Tyr	Thr	Phe
		35					40					45			
Asn	Glu	Thr	Asp	Leu	Ser	Val	Ile	Arg	Gln	Arg	Arg	Gly	Ala	Ala	Asn
	50					55					60				
Arg	Leu	Gly	Phe	Ala	Val	Gln	Leu	Cys	Tyr	Leu	Arg	Phe	Pro	Gly	Thr
65					70					75					80
Phe	Leu	Gly	Val	Asp	Glu	Pro	Pro	Phe	Pro	Pro	Leu	Leu	Arg	Met	Val
				85					90					95	
Ala	Ala	Gln	Leu	Lys	Met	Pro	Val	Glu	Ser	Trp	Ser	Glu	Tyr	Gly	Gln
			100					105					110		
Arg	Glu	Gln	Thr	Arg	Arg	Glu	His	Leu	Val	Glu	Leu	Gln	Thr	Val	Phe
	115						120					125			
Gly	Phe	Lys	Pro	Phe	Thr	Met	Ser	His	Tyr	Arg	Gln	Ala	Val	His	Thr
	130					135					140				
Leu	Thr	Glu	Leu	Ala	Leu	Gln	Thr	Asp	Lys	Gly	Ile	Val	Leu	Ala	Ser
145					150					155					160
Ala	Leu	Val	Glu	Asn	Leu	Arg	Arg	Gln	Ser	Ile	Ile	Leu	Pro	Ala	Met
				165					170					175	
Asn	Ala	Ile	Glu	Arg	Ala	Ser	Ala	Glu	Ala	Ile	Thr	Arg	Ala	Asn	Arg
			180					185					190		
Arg	Ile	Tyr	Ala	Ala	Leu	Thr	Asp	Ser	Leu	Leu	Ser	Pro	His	Arg	Gln
	195						200					205			
Arg	Leu	Asp	Glu	Leu	Leu	Lys	Arg	Lys	Asp	Gly	Ser	Lys	Val	Thr	Trp
	210					215					220				
Leu	Ala	Trp	Leu	Arg	Gln	Ser	Pro	Ala	Lys	Pro	Asn	Ser	Arg	His	Met
225					230					235					240
Leu	Glu	His	Ile	Glu	Arg	Leu	Lys	Ser	Trp	Gln	Ala	Leu	Asp	Leu	Pro
				245					250					255	
Ala	Gly	Ile	Glu	Arg	Gln	Val	His	Gln	Asn	Arg	Leu	Leu	Lys	Ile	Ala

			260					265				270			
Arg	Glu	Gly	Gly	Gln	Met	Thr	Pro	Ala	Asp	Leu	Ala	Lys	Phe	Glu	Val
		275					280					285			
Gln	Arg	Arg	Tyr	Ala	Thr	Leu	Val	Ala	Leu	Ala	Ile	Glu	Gly	Met	Ala
	290					295					300				
Thr	Val	Thr	Asp	Glu	Ile	Ile	Asp	Leu	His	Asp	Arg	Ile	Ile	Gly	Lys
305					310					315					320
Leu	Phe	Asn	Ala	Ala	Lys	Asn	Lys	His	Gln	Gln	Gln	Phe	Gln	Ala	Ser
			325						330					335	
Gly	Lys	Ala	Ile	Asn	Asp	Lys	Val	Arg	Met	Tyr	Gly	Arg	Ile	Gly	Gln
		340						345					350		
Ala	Leu	Ile	Glu	Ala	Lys	Gln	Ser	Gly	Ser	Asp	Pro	Phe	Ala	Ala	Ile
		355					360					365			
Glu	Ala	Val	Met	Pro	Trp	Asp	Thr	Phe	Ala	Ala	Ser	Val	Thr	Glu	Ala
	370					375					380				
Gln	Thr	Leu	Ala	Arg	Pro	Ala	Asp	Phe	Asp	Phe	Leu	His	His	Ile	Gly
385				390					395						400
Glu	Ser	Tyr	Ala	Thr	Leu	Arg	Arg	Tyr	Ala	Pro	Gln	Phe	Leu	Gly	Val
			405						410					415	
Leu	Lys	Leu	Arg	Ala	Ala	Pro	Ala	Ala	Lys	Gly	Val	Leu	Asp	Ala	Ile
		420					425					430			
Asp	Met	Leu	Arg	Gly	Met	Asn	Ser	Asp	Ser	Ala	Arg	Lys	Val	Pro	Ala
	435						440					445			
Asp	Ala	Pro	Thr	Ala	Phe	Ile	Lys	Pro	Arg	Trp	Ala	Lys	Leu	Val	Leu
	450				455					460					
Thr	Asp	Asp	Gly	Ile	Asp	Arg	Arg	Tyr	Tyr	Glu	Leu	Cys	Ala	Leu	Ser
465				470					475						480
Glu	Leu	Lys	Asn	Ala	Leu	Arg	Ser	Gly	Asp	Val	Trp	Val	Gln	Gly	Ser
			485					490						495	
Arg	Gln	Phe	Lys	Asp	Phe	Asp	Glu	Tyr	Leu	Val	Pro	Val	Glu	Lys	Phe
		500					505					510			
Ala	Thr	Leu	Lys	Leu	Ala	Ser	Glu	Leu	Pro	Leu	Ala	Val	Ala	Thr	Asp
		515					520					525			
Cys	Asp	Gln	Tyr	Leu	His	Asp	Arg	Leu	Glu	Leu	Leu	Glu	Ala	Gln	Leu
	530					535					540				
Ala	Thr	Val	Asn	Arg	Met	Ala	Ala	Ala	Asn	Asp	Leu	Pro	Asp	Ala	Ile
545				550					555						560
Ile	Thr	Thr	Ala	Ser	Gly	Leu	Lys	Ile	Thr	Pro	Leu	Asp	Ala	Ala	Val
			565					570						575	
Pro	Asp	Ala	Ala	Gln	Ala	Met	Ile	Asp	Gln	Thr	Ala	Met	Leu	Leu	Pro
		580					585						590		
His	Leu	Lys	Ile	Thr	Glu	Leu	Leu	Met	Glu	Val	Asp	Glu	Trp	Thr	Gly
	595					600					605				
Phe	Thr	Arg	His	Phe	Thr	His	Leu	Lys	Thr	Ser	Asp	Thr	Ala	Lys	Asp
	610					615				620					
Lys	Thr	Leu	Leu	Leu	Thr	Thr	Ile	Leu	Ala	Asp	Ala	Ile	Asn	Leu	Gly
625				630					635						640
Leu	Thr	Lys	Met	Ala	Glu	Ser	Cys	Pro	Gly	Thr	Thr	Tyr	Ala	Lys	Leu
			645					650						655	
Ser	Trp	Leu	Gln	Ala	Trp	His	Ile	Arg	Asp	Glu	Thr	Tyr	Ser	Thr	Ala
		660					665					670			
Leu	Ala	Glu	Leu	Val	Asn	Ala	Gln	Phe	Arg	Gln	Pro	Phe	Ala	Gly	Asn
	675					680					685				
Trp	Gly	Asp	Gly	Thr	Thr	Ser	Ser	Ser	Asp	Gly	Gln	Asn	Phe	Arg	Thr
	690					695					700				
Gly	Ser	Lys	Ala	Glu	Ser	Thr	Gly	His	Ile	Asn	Pro	Lys	Tyr	Gly	Ser
705				710					715						720
Ser	Pro	Gly	Arg	Thr	Phe	Tyr	Thr	His	Ile	Ser	Asp	Gln	Tyr	Ala	Pro
			725					730					735		
Phe	Ser	Ala	Lys	Val	Val	Asn	Val	Gly	Ile	Arg	Asp	Ser	Thr	Tyr	Val
		740					745					750			

Leu Asp Gly Leu Leu Tyr His Glu Ser Asp Leu Arg Ile Glu Glu His
 755 760 765
 Tyr Thr Asp Thr Ala Gly Phe Thr Asp His Val Phe Gly Leu Met His
 770 775 780
 Leu Leu Gly Phe Arg Phe Ala Pro Arg Ile Arg Asp Leu Gly Glu Thr
 785 790 795 800
 Lys Leu Phe Ile Pro Lys Gly Asp Ala Ala Tyr Asp Ala Leu Lys Pro
 805 810 815
 Met Ile Ser Ser Asp Arg Leu Asn Ile Lys Gln Ile Arg Ala His Trp
 820 825 830
 Asp Glu Ile Leu Arg Leu Ala Thr Ser Ile Lys Gln Gly Thr Val Thr
 835 840 845
 Ala Ser Leu Met Leu Arg Lys Leu Gly Ser Tyr Pro Arg Gln Asn Gly
 850 855 860
 Leu Ala Val Ala Leu Arg Glu Leu Gly Arg Ile Glu Arg Thr Leu Phe
 865 870 875 880
 Ile Leu Asp Trp Leu Gln Ser Val Glu Leu Arg Arg Arg Val His Ala
 885 890 895
 Gly Leu Asn Lys Gly Glu Ala Arg Asn Ala Leu Ala Arg Ala Val Phe
 900 905 910
 Phe Tyr Arg Leu Gly Glu Ile Arg Asp Arg Ser Phe Glu Gln Gln Arg
 915 920 925
 Tyr Arg Ala Ser Gly Leu Asn Leu Val Thr Ala Ala Ile Val Leu Trp
 930 935 940
 Asn Thr Val Tyr Leu Glu Arg Ala Thr Ser Ala Leu Arg Gly Asn Gly
 945 950 955 960
 Thr Ala Leu Asp Asp Thr Leu Leu Gln Tyr Leu Ser Pro Leu Gly Trp
 965 970 975
 Glu His Ile Asn Leu Thr Gly Asp Tyr Leu Trp Arg Ser Ser Ala Lys
 980 985 990
 Val Gly Ala Gly Lys Phe Arg Pro Leu Arg Pro Leu Pro Pro Ala
 995 1000 1005

<210> 8296

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 8296

Gly Gln Ala Phe Ile Arg Arg Thr Ile Met Glu Asn Ile Ala Leu Ile
 1 5 10 15
 Gly Ile Asp Leu Gly Lys Asn Ser Phe His Ile His Cys Gln Asp His
 20 25 30
 Arg Gly Lys Ala Val Tyr Arg Lys Lys Phe Thr Arg Pro Lys Leu Ile
 35 40 45
 Glu Phe Leu Ala Thr Cys Pro Ala Thr Thr Ile Ala Met Glu Ala Cys
 50 55 60
 Gly Gly Ser His Phe Met Ala Arg Lys Leu Glu Glu Leu Gly His Phe
 65 70 75 80
 Pro Lys Leu Ile Ser Pro Gln Phe Val Arg Pro Phe Val Lys Ser Asn
 85 90 95
 Lys Asn Asp Phe Val Asp Ala Glu Ala Ile Cys Glu Ala Ala Ser Arg
 100 105 110
 Pro Ser Met Arg Phe Val Gln Pro Arg Thr Glu Ser Gln Gln Ala Met
 115 120 125
 Arg Ala Leu His Arg Val Arg Glu Ser Leu Val Gln Asp Lys Val Lys
 130 135 140
 Thr Thr Asn Gln Met His Ala Phe Leu Leu Glu Phe Gly Ile Ser Val
 145 150 155 160
 Pro Arg Gly Ala Ala Val Ile Ser Arg Leu Ser Thr Leu Leu Glu Asp
 165 170 175

Ser Ser Leu Pro Leu Tyr Leu Ser Gln Leu Leu Leu Lys Leu Gln Gln
 180 185 190
 His Tyr His Tyr Leu Val Glu Gln Ile Lys Asp Leu Glu Ser Gln Leu
 195 200 205
 Lys Arg Lys Leu Asp Glu Asp Glu Val Gly Gln Arg Leu Leu Ser Ile
 210 215 220
 Pro Cys Val Gly Thr Leu Thr Ala Ser Thr Ile Ser Thr Glu Ile Gly
 225 230 235 240
 Asp Gly Lys Gln Tyr Ala Ser Ser Arg Asp Phe Ala Ala Ala Thr Gly
 245 250 255
 Leu Val Pro Arg Gln Tyr Ser Thr Gly Gly Arg Thr Thr Leu Leu Gly
 260 265 270
 Ile Ser Lys Arg Gly Asn Lys Lys Ile Arg Thr Leu Leu Val Gln Cys
 275 280 285
 Ala Arg Val Phe Ile Gln Lys Leu Glu His Gln Ser Gly Lys Leu Ala
 290 295 300
 Asp Trp Val Arg Glu Leu Leu Cys Arg Lys Ser Asn Phe Val Val Thr
 305 310 315 320
 Cys Ala Leu Ala Asn Lys Leu Ala Arg Ile Ala Trp Ala Leu Thr Ala
 325 330 335
 Arg Gln Gln Thr Tyr Glu Ala
 340

<210> 8297

<211> 187

<212> PRT

<213> Enterobacter cloacae

<400> 8297

Arg Trp Gly Glu Arg Thr Tyr Arg Ala Arg Leu Pro Gly Ala Arg Leu
 1 5 10 15
 Val Thr Ala Gly Gly Leu His His Gly Arg Leu Arg Arg Val Arg Arg
 20 25 30
 Cys Gly Leu Ala Thr Ala Val Leu Arg Ala Arg Gly Leu Arg Gly Gly
 35 40 45
 Tyr Arg Pro Gly Cys Pro Gly Ala Ala Val Pro Cys Ala Arg Arg Ser
 50 55 60
 Gly Arg Arg Thr Ser Arg Ser Ala Ala Cys Arg Ala Ala Pro Val Gly
 65 70 75 80
 Arg Ala Ala Ala Arg Gly Val Gly Pro Ser Gly Arg Ala Thr Gly Leu
 85 90 95
 His Ala Ser Arg Ala Gly Ala Arg Gly Gly Ile Ala Val Asn Ala Pro
 100 105 110
 Asp Lys Leu Pro Pro Glu Thr Arg Gln Pro Val Ser Gly Tyr Leu Trp
 115 120 125
 Gly Ala Leu Ala Val Leu Thr Cys Pro Cys His Leu Pro Ile Leu Ala
 130 135 140
 Ala Val Leu Ala Gly Thr Thr Ala Gly Ala Phe Leu Gly Glu His Trp
 145 150 155 160
 Gly Val Ala Ala Leu Ala Leu Thr Gly Leu Phe Val Leu Ala Val Thr
 165 170 175
 Arg Leu Leu Arg Ala Phe Arg Gly Gly Ser
 180 185

<210> 8298

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 8298

Gly Val Val Ala Val Asp Glu Tyr Pro Ile Ile Asp Leu Ser His Leu

1				5					10				15
Leu	Pro	Ala	Ala	Gln	Gly	Leu	Ala	Arg	Leu	Pro	Ala	Asp	Glu
			20					25				30	Arg
Gln	Arg	Leu	Arg	Ala	Asp	Arg	Trp	Ile	Gly	Tyr	Pro	Arg	Ala
		35					40					45	Val
Ala	Leu	Asn	Arg	Leu	Glu	Ala	Leu	Tyr	Ala	Trp	Pro	Asn	Lys
		50				55					60		Gln
Met	Pro	Asn	Leu	Leu	Leu	Val	Gly	Pro	Thr	Asn	Asn	Gly	Lys
65					70					75			Ser
Ile	Val	Glu	Lys	Phe	Arg	Arg	Thr	His	Pro	Ala	Ser	Ser	Asp
				85					90				Ala
Gln	Glu	His	Ile	Pro	Val	Leu	Val	Val	Gln	Met	Pro	Ser	Glu
			100					105					Pro
Val	Ile	Arg	Phe	Tyr	Val	Ala	Leu	Leu	Ala	Ala	Met	Gly	Ala
		115					120					125	Pro
Arg	Pro	Arg	Pro	Arg	Leu	Pro	Glu	Met	Glu	Gln	Leu	Ala	Leu
		130				135					140		Ala
Leu	Arg	Lys	Val	Gly	Val	Arg	Met	Leu	Val	Ile	Asp	Glu	Leu
145				150						155			His
Val	Leu	Ala	Gly	Asn	Ser	Val	Asn	Arg	Arg	Glu	Phe	Leu	Asn
			165					170					Leu
Arg	Phe	Leu	Gly	Asn	Glu	Leu	Arg	Ile	Pro	Leu	Val	Gly	Val
		180						185				190	Gly
Arg	Asp	Ala	Tyr	Leu	Ala	Ile	Arg	Ser	Asp	Asp	Gln	Leu	Glu
		195					200				205		Asn
Phe	Glu	Pro	Met	Met	Leu	Pro	Val	Trp	Glu	Ala	Asn	Asp	Asp
		210				215				220			Cys
Ser	Leu	Leu	Ala	Ser	Phe	Ala	Ala	Ser	Leu	Pro	Leu	Arg	Arg
225					230					235			Pro
Pro	Ile	Ala	Thr	Leu	Asp	Met	Ala	Arg	Tyr	Leu	Leu	Thr	Arg
			245						250				Ser
Gly	Thr	Ile	Gly	Glu	Leu	Ala	His	Leu	Leu	Met	Ala	Ala	Ala
		260						265				270	Ile
Ala	Val	Glu	Ser	Gly	Glu	Glu	Ala	Ile	Asn	His	Arg	Thr	Leu
		275					280					285	Ser
Ala	Cys												Met
	290												

<210> 8299

<211> 206

<212> PRT

<213> Enterobacter cloacae

<400> 8299

Leu	Thr	Tyr	Ser	Val	Lys	Gly	Asn	Arg	Phe	His	Pro	Asp	Thr	Phe	Ala
1				5					10					15	
Phe	Gly	Gly	Ile	Leu	Gln	Gly	Gln	Arg	Ile	Gly	Tyr	Val	Arg	Val	Ser
			20					25					30		
Ser	Phe	Asp	Gln	Asn	Pro	Glu	Arg	Gln	Leu	Glu	Gly	Val	Gln	Val	Ala
		35					40					45			
Arg	Val	Phe	Thr	Asp	Lys	Ala	Ser	Gly	Lys	Asp	Thr	Gln	Arg	Pro	Glu
		50				55					60				
Leu	Glu	Arg	Leu	Leu	Ala	Phe	Val	Arg	Glu	Gly	Asp	Thr	Val	Val	Val
65				70						75					80
His	Ser	Met	Asp	Arg	Leu	Ala	Arg	Asn	Leu	Asp	Asp	Leu	Arg	Arg	Ile
			85					90						95	
Val	Gln	Gly	Leu	Thr	Gln	Arg	Gly	Val	Arg	Met	Glu	Phe	Val	Lys	Glu
			100				105						110		
Gly	Leu	Lys	Phe	Thr	Gly	Glu	Asp	Ser	Pro	Met	Ala	Asn	Leu	Met	Leu
		115					120					125			
Ser	Val	Met	Gly	Ala	Phe	Ala	Glu	Phe	Glu	Arg	Ala	Leu	Ile	Arg	Glu

130		135		140
Arg Gln Arg Glu Gly Ile Val Leu Ala Lys Gln Arg Gly Ala Tyr Arg				
145		150		155
Gly Arg Lys Lys Ser Leu Asn Ser Glu Gln Ile Ala Glu Leu Lys Arg				
		165		170
Arg Val Ala Ala Gly Asp Gln Lys Thr Leu Val Ala Arg Asp Phe Gly				
		180		185
Ile Ser Arg Glu Thr Leu Tyr Gln Tyr Leu Arg Glu Asp				
		195		200
				205

<210> 8300

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 8300

Ala His Ser Gly Thr Ala Asn Phe Gln His Met Arg Val Asn His Arg				
1		5		10
Arg Arg Asp Val Gly Met Ala Glu Gln Ile Leu His Gly Ser Asn Val				
		20		25
Val Thr Ala Ala Glu Gln Gly Arg Arg Glu Arg Val Ala Glu Gly Val				
		35		40
Arg Cys Gly Gly Leu Arg Asp Ala Cys Leu Phe Tyr Gly Thr Phe Glu				
		50		55
Gly Ala Leu Lys Gly Leu Val Ile His Val Met Ala Thr His Asp Thr				
		65		70
Ala Pro Trp Ile Gly Arg Met Arg Val Leu Arg Lys Asn Pro Glu Pro				
		85		90
Arg Pro Gly Met Pro Gly Ala Arg Ile Leu Pro Leu Lys Gly Val Gly				
		100		105
Lys Arg Asn Ala Ala Ala Ala Leu Gly Leu Val Leu Gln Pro Pro Cys				
		115		120
Pro Cys Thr Arg Gln Leu Leu Ala Gln Ala Gly Cys Gln Ala Leu Gly				
		130		135
				140

145

<210> 8301

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 8301

His Gln Gly Pro Ile Leu Gly Ala Leu Ala Leu Pro His Asp Asp Arg				
1		5		10
Ala Val Ile Glu Ile Gln Ile Leu Asp Pro Gln Leu Gln Thr Leu Thr				
		20		25
Asp Pro His Ala Arg Ser Ile Gln Lys Leu Gly Glu Gln Thr Met Leu				
		35		40
Ala Phe Gln Lys Thr Glu Asp Ala Asn His Phe Ile Arg Gly Gln His				
		50		55
His Arg Gln Ala Pro Arg Arg Ala Arg Ser Ser Asp Leu Leu Lys Pro				
		65		70
Gly Gln Ile Arg Ala Gln His Leu Ala Val Glu Glu Gln Gln Gly Arg				
		85		90
Gln Cys Leu Thr Met Arg Gly Asp Arg Asn Leu Ala Leu Val Arg Gln				
		100		105
Pro Gly Gln Lys Cys Leu Asp Phe Ala Ala Ala Gln Gly Cys Arg Val				
		115		120
Thr His Thr Val Glu Thr Asp Glu Gly Thr Asn Pro Val Asp Ile Ser				
		130		135
				140

Leu Phe Gly Trp
145

<210> 8302

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 8302

Cys	Val	Gly	Leu	Cys	Arg	Tyr	Gly	Ala	His	Asn	Cys	Cys	Leu	Phe	Ala
1				5				10						15	
Arg	Pro	Ile	Pro	Ile	Val	Glu	Val	Ala	Glu	Ala	Asp	Ala	Met	Val	
		20						25					30		
Thr	Val	Phe	Gly	Ile	Leu	Asn	Leu	Thr	Glu	Asp	Ser	Phe	Phe	Asp	Glu
		35					40					45			
Ser	Arg	Arg	Leu	Asp	Pro	Ala	Gly	Ala	Val	Thr	Ala	Ala	Ile	Glu	Met
	50					55					60				
Leu	Arg	Val	Gly	Ser	Asp	Val	Val	Asp	Val	Gly	Pro	Ala	Ala	Ser	His
65					70					75				80	
Pro	Asp	Ala	Arg	Pro	Val	Ser	Pro	Ala	Asp	Glu	Ile	Arg	Arg	Ile	Ala
				85					90					95	
Pro	Leu	Leu	Asp	Ala	Leu	Ser	Asp	Gln	Met	His	Arg	Val	Ser	Ile	Asp
			100					105					110		
Ser	Phe	Gln	Pro	Glu	Thr	Gln	Arg	Tyr	Ala	Leu	Lys	Arg	Gly	Val	Gly
		115					120					125			
Tyr	Leu	Asn	Asp	Ile	Gln	Gly	Phe	Pro	Asp	Pro	Ala	Leu	Tyr	Pro	Asp
	130					135					140				
Ile	Ala	Glu	Ala	Asp	Cys	Arg	Leu	Val	Val	Met	His	Ser	Ala	Gln	Arg
145					150					155				160	
Asp	Gly	Ile	Ala	Thr	Arg	Thr	Gly	His	Leu	Arg	Pro	Glu	Asp	Ala	Leu
				165				170						175	
Asp	Glu	Ile	Val	Arg	Phe	Phe	Glu	Ala	Arg	Val	Ser	Ala	Leu	Arg	Arg
		180						185					190		
Ser	Gly	Val	Ala	Ala	Asp	Arg	Leu	Ile	Leu	Asp	Pro	Gly	Met	Gly	Phe
		195					200					205			
Phe	Leu	Ser	Pro	Ala	Pro	Glu	Thr	Ser	Leu	His	Val	Leu	Ser	Asn	Leu
	210					215					220				
Gln	Lys	Leu	Lys	Ser	Ala	Leu	Gly	Leu	Pro	Leu	Leu	Val	Ser	Val	Ser
225					230					235				240	
Arg	Lys	Ser	Phe	Leu	Gly	Ala	Thr	Val	Gly	Leu	Pro	Val	Lys	Asp	Leu
				245					250					255	
Gly	Pro	Ala	Ser	Leu	Ala	Ala	Glu	Leu	His	Ala	Ile	Gly	Asn	Gly	Ala
		260					265						270		
Asp	Tyr	Val	Arg	Thr	His	Ala	Pro	Gly	Asp	Leu	Arg	Ser	Ala	Ile	Thr
	275					280						285			
Phe	Ser	Glu	Thr	Leu	Ala	Lys	Phe	Arg	Ser	Arg	Asp	Ala	Arg	Asp	Arg
	290					295					300				
Gly	Leu	Asp	His	Ala											
305					310										

<210> 8303

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 8303

Arg	Met	Arg	Ser	Arg	Asn	Trp	Ser	Arg	Thr	Leu	Thr	Glu	Arg	Ser	Gly
1				5					10					15	
Gly	Asn	Gly	Ala	Val	Ala	Val	Phe	Met	Ala	Cys	Tyr	Asp	Cys	Phe	Phe
		20						25					30		
Val	Gln	Ser	Met	Pro	Arg	Ala	Ser	Lys	Gln	Gln	Ala	Arg	Tyr	Ala	Val

```
<210> 8304
<211> 129
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 8305
<211> 201
<212> PRT
<213> Enterobacter cloacae
```

```
<400> 8305
Arg Thr Leu Val Arg Phe Arg Glu Gly Gly Arg Arg His Ala Gly Leu
1           5           10          15
```


Val Arg Ile Lys Leu His Tyr Glu Ala Ala Val His Thr Ala Pro Gly
 20 25 30
 Glu Arg Met Asp Ser Glu Glu Pro Pro Asn Val Arg Val Ala Cys Ser
 35 40 45
 Gly Asp Ile Asp Glu Val Val Arg Leu Met His Asp Ala Ala Trp
 50 55 60
 Met Ser Ala Lys Gly Thr Pro Ala Trp Asp Val Ala Arg Ile Asp Arg
 65 70 75 80
 Thr Phe Ala Glu Thr Phe Val Leu Arg Ser Glu Leu Leu Val Ala Ser
 85 90 95
 Cys Ser Asp Gly Ile Val Gly Cys Cys Thr Leu Ser Ala Glu Asp Pro
 100 105 110
 Glu Phe Trp Pro Asp Ala Leu Lys Gly Glu Ala Ala Tyr Leu His Lys
 115 120 125
 Leu Ala Val Arg Arg Thr His Ala Gly Arg Gly Val Ser Ser Ala Leu
 130 135 140
 Ile Glu Ala Cys Arg His Ala Ala Arg Thr Gln Gly Cys Ala Lys Leu
 145 150 155 160
 Arg Leu Asp Cys His Pro Asn Leu Arg Gly Leu Tyr Glu Arg Leu Gly
 165 170 175
 Phe Thr His Val Asp Thr Phe Asn Pro Gly Trp Asp Pro Thr Phe Ile
 180 185 190
 Ala Glu Arg Leu Glu Leu Glu Ile
 195 200

<210> 8306

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 8306

Ser Ser Lys Gly Leu Pro Leu Ile Cys Gln Ser Ile Ser Thr Phe Ser
 1 5 10 15
 Pro Ser Ser Gln Gly Arg Leu Ser Gln Ala Thr Cys Thr Arg His Arg
 20 25 30
 Pro Thr Glu Thr Ala Asp Gly Ala Ser Ser Val Thr Thr Met Pro Ser
 35 40 45
 Thr Gln Arg Val Asn Thr Ser Met Ala Arg Val Arg Tyr Gly Arg Pro
 50 55 60
 Ile Gly Cys Arg Ser Arg Ser Ser Thr Thr Ile Arg Ser Met Thr Val
 65 70 75 80
 Trp Ser Ile Cys Thr Cys Ser Ser Gly Ala Val Thr Ala Gly Gly Ser
 85 90 95
 Pro Pro Thr Pro Cys Arg Ser Arg Ala Ala Ser Trp Pro Ser Arg Arg
 100 105 110
 Arg Met Thr Leu Arg Gly Ser Arg Leu Ala Ile Arg Lys Ala Thr Val
 115 120 125
 Leu Arg Ala Gly Thr Arg Ser Phe
 130 135

<210> 8307

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 8307

Lys Ala Ala Arg Leu Arg Phe Cys Leu Val Arg Asn Arg Phe Cys Ser
 1 5 10 15
 Ser Ser Trp Met Thr Arg Ser Thr Gly Ser Gly Lys Arg Pro Leu Pro
 20 25 30
 Leu Pro Pro Pro Asp Trp Pro Gly Thr Arg Ser Val Thr Arg Pro Leu

35 40 45
 Pro Cys Arg Ala Arg Arg Ile Arg Thr Tyr Thr Trp Arg Arg Asp Lys
 50 55 60
 Pro Ser Ala
 65

<210> 8308
 <211> 70
 <212> PRT
 <213> Enterobacter cloacae

<400> 8308
 Ala Ala Ile Ser Ala Ala Ser Cys Pro Thr Val Ser Asp Cys Ala Asn
 1 5 10 15
 Gly Leu Met Ile Ser Ala Arg Arg Arg Ala Arg Ser Gln Ala Ser Ser
 20 25 30
 Gly Arg Val Ala Thr Pro Cys Ser Gly Ile Arg Gly Val Ser Ala Ala
 35 40 45
 Met Leu Thr Ser Leu Trp Cys Thr Arg Val Leu Ser Ile Val Glu Ile
 50 55 60
 Gly Ala Asp His Phe
 65 70

<210> 8309
 <211> 159
 <212> PRT
 <213> Enterobacter cloacae

<400> 8309
 Ser Ala Pro Glu Gly Ala Gln Gln Pro Arg Tyr Gly Gln Asn Glu Gln
 1 5 10 15
 Ala Gly Gln Arg Glu Arg Gly Asn Thr Pro Met Leu Ala Lys Glu Gly
 20 25 30
 Thr Gly Gly Arg Pro Gly Gln His Gly Gly Glu Asn Arg Gln Met Ala
 35 40 45
 Gly Ala Gly Gln His Gly Gln Arg Thr Pro Gln Val Ala Gly Asn Gly
 50 55 60
 Leu Ala Arg Leu Gly Arg Gln Phe Val Arg Gly Val His Gly Asn Ala
 65 70 75 80
 Ser Ser Cys Ala Arg Ser Ala Gly Met Glu Ala Ser Cys Ala Ser Arg
 85 90 95
 Trp Ala Asn Ala Ala Arg Arg Arg Ser Thr Asn Trp Arg Ser Thr Ala
 100 105 110
 Ser Cys Ala Ala Ala Cys Ala Pro Ser Ala Ala Ser Ser Ala Arg His
 115 120 125
 Ser Arg Ala Arg Ala Ser Arg Pro Ile Pro Ala Ser Lys Ala Ala Arg
 130 135 140
 Thr Lys His Ser Arg Cys Lys Ala Ala Ser Ser Asn Thr Pro
 145 150 155

<210> 8310
 <211> 137
 <212> PRT
 <213> Enterobacter cloacae

<400> 8310
 Gly Arg Met Ser Glu Ala Leu Lys Ser Leu Asn Asn Ile Arg Thr Leu
 1 5 10 15
 Arg Ala Gln Gly Arg Glu Leu Pro Leu Glu Val Leu Glu Glu Ile Leu
 20 25 30
 Glu Lys Leu Asn Val Ile Val Asp Glu Arg Arg Gln Glu Glu Ser Ser

```
<210> 8311
<211> 516
<212> PRT
<213> Enterobacter cloacae
```

<400> 8311															
Phe 1	Met	Tyr	Ser 5	Tyr	Glu	Asp	Arg	Leu 10	Arg	Ala	Val	Arg	Leu 15	Tyr	Leu
Lys	Leu	Gly	Arg 20	Arg	Met	Ser	Ala	Thr 25	Leu	Arg	Gln	Leu	Gly 30	Tyr	Pro
Thr	Lys	Asn 35	Ser	Leu	Lys	Ala	Trp 40	Leu	Ala	Glu	Phe	Glu 45	Arg	Asn	Gln
Asp	Leu 50	Arg	Arg	Gly	Tyr	Gln 55	Arg	Ile	Lys	Arg	Gln 60	Tyr	Thr	Asp	Glu
Gln 65	Lys	Gln	Arg	Ala	Val 70	Asp	His	Tyr	Ile	Glu	Gln 75	Gly	Tyr	Cys	Leu 80
Ser	His	Thr	Ile 85	Arg	Ser	Leu	Gly	Tyr	Pro 90	Ser	Arg	Glu	Ala 95	Leu	Arg
Ala	Trp	Ile	Arg 100	Asp	Leu	Arg	Pro	Glu 105	Phe	Ala	Arg	Thr	Val 110	Val	Gly
Ser	Ser	Ala 115	Pro	Thr	Val	Ala	Arg 120	Ser	Arg	Leu	Glu	Lys 125	Gln	Gln	Ala
Val	Ile 130	Ala	Leu	Asn	Leu	Arg 135	Val	Gly	Ser	Ala	Lys 140	Asp	Val	Ala	Asp
Thr 145	Val	Gly	Val	Ser	Arg 150	Pro	Thr	Leu	Tyr	Asn 155	Trp	Gln	His	Arg	Leu 160
Leu	Gly	Lys	Val 165	Pro	Leu	Lys	Pro	Met	Thr 170	Lys	Lys	Lys	Gly 175	Asp	Thr
Ser	Leu	Glu	Gln 180	Arg	His	Glu	Ala	Leu 185	Leu	Arg	Glu	Leu	Ala 190	Glu	Leu
Glu	Ser	Gln 195	Asn	Gln	Arg	Leu	Arg 200	Met	Glu	Asn	Ala	Ile 205	Leu	Glu	Lys
Ala	Ser 210	Glu	Leu	Ile	Lys	Lys 215	Asp	Met	Gly	Ile	Asn 220	Pro	Leu	Glu	Leu
Thr 225	Ser	Arg	Glu	Lys	Thr 230	Lys	Val	Val	Asp	Ala 235	Leu	Arg	Val	Thr	Phe 240
Pro	Leu	Ala	Asn 245	Leu	Cys	Gly	Leu	Lys 250	Leu	Ala	Arg	Ser	Thr 255	Thr	Tyr
Phe	Tyr	Gln	Arg 260	Leu	Arg	Gln	Thr	Arg 265	Pro	Asp	Lys	Tyr	Thr 270	Gln	Val
Arg	Glu	Val 275	Ile	Arg	Thr	Ile	Phe 280	Glu	Asp	Asn 285	Tyr	Arg	Cys	Tyr	Gly
Tyr	Arg 290	Arg	Ile	Asp	Ser	Ala 295	Leu	Arg	Leu	Gly	Gly 300	Met	Arg	Val	Ser
Glu 305	Lys	Val	Val	Arg	Arg 310	Leu	Met	Ala	Gln	Glu	Arg 315	Leu	Val	Val	Arg
Thr	Pro	Arg	Arg	Arg	Arg	Phe	Ser	Ala	Tyr	Ala	Gly	Asp	Pro	Thr	Pro

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<210> 8312
<211> 238
<212> PRT
<213> Enterobacter cloacae
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<400>	8312														
Cys 1	Thr	His	His	Leu 5	Asn	Thr	Phe	Asp	Gly 10	Gly	Val	Ser	Arg	Leu 15	His
Gly	Phe	Lys	Ser 20	Gln	Arg	Gly	Ala	Asp 25	Tyr	Pro	Phe	Gln	Phe 30	Ala	Met
Ile	Ala	Phe 35	Asn	His	Val	Val	Pro 40	Val	Leu	Asn	Leu	Ser 45	Val	Phe	Asn
Val	Arg	Arg	Ala	Pro	Ala	Phe 55	Ala	Phe	Glu	Gln	Ser 60	Lys	Arg	Ala	Thr
Ile 65	Gly	Gly	Arg	Phe	Ile 70	Arg	Val	Asp	Glu	Ser 75	Arg	Asp	Leu	Pro	Leu 80
Leu	His	Val	Val	Glu 85	Asp	Phe	Thr	Gln	Lys 90	Pro	Val	Cys	Ser	Phe 95	Ala
Val	Thr	Thr	Gly 100	Gly	Glu	Ile	Lys	Ile 105	Asp	Ser	Ala	Ala	Pro 110	Ala	Val
Asp	Gly	Pro 115	Val	Gln	Ile	Arg	Pro 120	Ala	Ala	Ile	Asp	Leu 125	His	Val	Gly
Phe	Ile 130	His	Val	Pro	Arg	Ala 135	Lys	Ile	Gly	Arg	Val 140	Thr	Pro	Val	Pro
Ala 145	Gln	Pro	Phe	Phe	His 150	Phe	Arg	Arg	Ile	Thr 155	Leu	Asn	Pro	Ala	Val 160
Asn	Arg	Gly	Val	Ile 165	Asp	Ile	His	Ser	Ala 170	Phe	Ser	Gln	His	Leu 175	Leu
Gln	Leu	Thr	Val 180	Thr	Asp	Ala	Val	Phe 185	Ala	Val	Pro	Ala	Tyr 190	Gly	Pro
Gln	Asn	Asp 195	Val	Thr	Leu	Lys	Met 200	Pro	Ala	Phe	Glu	Trp 205	Val	His	Val
Gln	Leu 210	His	Gln	Gln	Lys	Gly 215	Met	Ile	Ser	Leu	Ser 220	Pro	Pro	Thr	Ile
Cys	Asn	Ser	Ala	His	Arg	Arg	Ser	Ser	Gly	Cys	Gly	Arg			

225

230

235

<210> 8313

<211> 411

<212> PRT

<213> Enterobacter cloacae

<400> 8313

Pro Ser Ile Ile Lys Glu Ile Ile Met Gly Phe Arg Phe Arg Lys Ser
 1 5 10 15
 Ile Asn Ile Ile Pro Gly Val Arg Leu Asn Leu Ser Asn Gly Ala Pro
 20 25 30
 Ser Leu Ser Val Gly Pro Arg Gly Ala Ser Val Ser Phe Gly Ser Arg
 35 40 45
 Gly Thr Tyr Ala Asn Leu Gly Leu Pro Gly Thr Gly Leu Ser Tyr Arg
 50 55 60
 Thr Arg Leu Asp Arg Ala Ala Arg Ser Gly Gly Gly Asn Arg Thr Ala
 65 70 75 80
 Thr Asp Pro Gly Leu Arg Gln Ala Leu Glu Gln Glu Ala Ala Glu Leu
 85 90 95
 Met Ser Ala Val Thr Ala Ile Arg Asn Ile His Glu Leu Thr Pro Asp
 100 105 110
 Pro Lys Thr Gly Ile Ser Trp Ala Glu Leu Glu Ala Val Tyr Leu His
 115 120 125
 Asn Arg Thr Ser Pro Phe Gln Val Pro Ala Pro Val Arg Pro Glu Lys
 130 135 140
 Pro Asp Tyr Leu Ala Leu Pro Glu Lys Pro Ala Glu Ser Glu Gly Ile
 145 150 155 160
 Ser Phe Leu Gly Lys Trp Phe Glu Ser Glu Ser Ala Lys Ala Glu Arg
 165 170 175
 His Ala Glu Asn Leu Arg Arg Trp Gln Gln Glu Leu Ile Asp Val Glu
 180 185 190
 Arg Glu Asn Thr Leu Arg Gln His Arg Tyr Gln Gln Gln Arg Thr Ala
 195 200 205
 Trp Ala Glu Gln Tyr Ala Asn Trp Lys Phe Glu Ala Glu Glu His Glu
 210 215 220
 Lys Arg Leu Ala Thr Ala Gln Ala Asp Ala Arg Gln Gln Phe Arg Thr
 225 230 235 240
 Asp Ala Ala Phe Phe Glu Ser Tyr Leu Ala Gly Val Leu Ala Glu Thr
 245 250 255
 Glu Trp Pro Arg Glu Thr Ile Val Ala Phe Glu Val Lys Pro Glu Leu
 260 265 270
 Ser Ala Val Leu Leu Asp Val Asp Leu Ala Glu Ile Glu Asp Phe Pro
 275 280 285
 Asp Lys Ile Tyr Gly Val Asn Ala Arg Gly Thr Glu Leu Thr Glu Lys
 290 295 300
 Ala Met Thr Gln Lys Ala Val Arg Glu Asn Tyr Ala Arg His Val His
 305 310 315 320
 Gly Cys Leu Phe Arg Leu Val Gly Ile Val Leu His Thr Leu Pro Phe
 325 330 335
 Asp Asn Val Ile Val Ser Gly Phe Thr Gln Arg Val Ser Lys Arg Thr
 340 345 350
 Gly Tyr Leu Glu Asp Glu Tyr Ile Leu Ser Cys Lys Cys Thr Arg Ser
 355 360 365
 Gln Met Ser Ser Val Asn Phe Ala Gly Ile Glu His Ile Asp Pro Val
 370 375 380
 Glu Ala Leu Gly Asp His Pro Val Ile Arg Lys Met Ser Ser Thr Phe
 385 390 395 400
 Ile Phe Gln Pro Ile Glu Pro Leu Thr Leu
 405 410

<210> 8314
 <211> 217
 <212> PRT
 <213> Enterobacter cloacae

<400> 8314

Gly	Asp	Ile	Met	Ser	Val	Ser	Leu	Ser	Lys	Gly	Gln	Gly	Val	Ser	Leu
1				5					10					15	
Lys	Lys	Asn	Glu	Tyr	Asp	Leu	Ser	Ser	Val	Thr	Ile	Gly	Leu	Gly	Trp
		20						25					30		
Asp	Ile	Asn	Glu	Glu	Lys	Lys	Gly	Phe	Leu	Gly	Gly	Ile	Phe	Gly	Lys
		35					40					45			
Lys	Glu	Glu	Glu	Tyr	Asp	Leu	Asp	Val	Ile	Ala	Phe	Leu	Cys	Asn	Ser
	50					55					60				
Ala	Gly	Lys	Val	Thr	Asp	Leu	Gly	Asn	Val	Glu	Asn	Gly	Lys	Pro	Thr
65				70					75						80
Leu	Val	Asn	Gly	Asp	Ile	Ile	Phe	Phe	Asn	Ser	Leu	Arg	His	Lys	Ser
				85					90					95	
Gly	Asn	Ile	Trp	Leu	Thr	Gly	Asp	Asn	Arg	Thr	Gly	Ala	Gly	Asp	Gly
		100						105					110		
Asp	Asp	Glu	Gln	Ile	Ile	Val	Arg	Leu	Asn	Ser	Leu	Asp	Ala	Gln	Tyr
		115						120					125		
Glu	Lys	Ile	Val	Phe	Ile	Val	Gln	Ile	Tyr	Asn	Gly	Glu	Lys	Leu	Gln
	130					135					140				
Gln	His	Phe	Gly	Lys	Val	Gln	Asn	Ala	Phe	Ile	Arg	Ala	Val	Asp	Ala
145					150					155					160
Arg	Asn	Ile	Glu	Met	Ala	Arg	Phe	Asp	Leu	Ser	Gly	Gly	Pro	Ala	Phe
				165				170						175	
Ala	Ser	Gln	Arg	Ser	Met	Val	Phe	Ala	Glu	Leu	Ile	Arg	Glu	Ala	Thr
		180						185					190		
Gly	Trp	Lys	Leu	Arg	Ala	Ile	Gly	Glu	Pro	Ser	Glu	Ser	Asp	Ser	Phe
		195					200					205			
Val	Ser	His	Leu	Arg	Asn	Tyr	Met								
		210				215									

<210> 8315
 <211> 384
 <212> PRT
 <213> Enterobacter cloacae

<400> 8315

Gly	Val	Phe	Met	Ser	Asp	Ile	Leu	Glu	Asp	Met	Ile	Tyr	Arg	Arg	Thr
1				5					10					15	
Leu	Ser	Cys	Gly	Thr	Ile	Gln	Val	Thr	Arg	Asp	Gln	Gly	Glu	Val	Ser
		20						25					30		
Leu	Asp	Asp	Leu	Phe	Asp	Ile	Ala	Glu	Arg	Arg	Asn	Pro	Lys	Arg	Ala
		35					40					45			
Phe	Leu	Phe	Val	Ser	Lys	Val	Leu	Gly	Arg	His	Ile	Pro	Val	Pro	Pro
	50					55				60					
Ser	Val	Met	Arg	Gln	Ala	Tyr	Arg	Gln	Leu	Ala	Ser	Gln	Phe	Pro	Ser
65				70					75						80
Thr	Leu	Thr	Gly	Pro	Val	Leu	Phe	Ile	Gly	Met	Ala	Glu	Thr	Ala	Val
				85					90					95	
Gly	Leu	Gly	Ala	Gly	Val	Phe	Asp	Glu	Val	Arg	His	Gln	His	Pro	Glu
		100						105					110		
Ser	Val	Tyr	Leu	Thr	Ser	Thr	Arg	His	Pro	Val	Asp	Gly	Thr	Leu	Leu
		115					120					125			
Cys	Glu	Phe	Lys	Glu	Glu	His	Ser	His	Ala	Thr	Asp	His	Leu	Ile	Tyr
	130					135					140				
Leu	Pro	Asp	Asp	Glu	Glu	Lys	Arg	Arg	Arg	Val	Thr	Asn	Ala	Arg	Thr
145					150					155					160

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Leu Val Leu Ile Asp Asp Glu Ala Thr Thr Gly Asn Thr Phe Ile Asn
      165      170
Leu Leu Ser Ala Leu Arg Asn Thr Gly Lys Leu Gln His Ile Glu Gln
      180      185      190
Val Ile Ala Val Thr Leu Thr Asp Trp Ser Gly Lys Ala Leu Ser Glu
      195      200      205
Arg Ser Thr Leu Pro Val Thr Ser Val Ser Leu Val Ser Gly Lys Trp
      210      215      220
Gly Trp Thr Pro Leu Pro Asp Ala Pro Val Pro Asp Met Pro Lys Val
      225      230      235      240
Asn Val Thr Ser Arg Gly Glu Trp Asp Ile Gln Gly Lys Gln Ser Trp
      245      250      255
Gly Arg Leu Gly Met Leu Ala Pro Ala Ala Asp Leu Gly His Glu Val
      260      265      270
Ser Val His Lys Gly Glu Arg Ile Leu Val Leu Gly Thr Gly Glu Phe
      275      280      285
Val Trp Glu Pro Phe Leu Leu Ala Glu Arg Leu Glu Ala Ala Gly Ala
      290      295      300
Gln Ala Phe Tyr Gly Ser Thr Thr Arg Ser Pro Ile Ala Val Gly Tyr
      305      310      315      320
Ala Ile Glu Ser Ala Ile Ser Phe Thr Asp Asn Tyr Gly Leu Gly Ile
      325      330      335
Pro Asn Phe Val Tyr Asn Val Ala His Gln Gln Phe Asp Arg Ile Leu
      340      345      350
Val Cys Thr Glu Thr Pro Ala Glu Ser Ile Asp Thr Gln Leu Leu Lys
      355      360      365
Ala Leu Ala Glu Val Ala Ala Val Val Glu Ile Val Thr Tyr Glu
      370      375      380

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<210> 8316

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 8316

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Arg Leu His Phe Met Leu Gln His Pro Ile Leu Ile Asn Arg Pro Ile
1      5      10      15
Val Val Thr Pro Leu Gly Thr Arg Leu Cys Arg Pro Ser Glu Val Val
      20      25      30
Leu Asp Ile Leu Pro Asp Ala Gln Lys His Ala Phe Thr Lys Glu Asp
      35      40      45
Gly Glu Lys Val Val Asp Asp Ala Gly Lys Arg Leu Lys
      50      55      60

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<210> 8317

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 8317

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Ser Ala Ser Trp Arg Gly Ala Ile Cys Leu Ser Arg Cys Arg Leu Pro
1      5      10      15
Arg Ser Ala Thr Ala Arg Gly Ala Gly Arg Gly Gly Cys Gly Leu Ala
      20      25      30
Asp Arg Arg Ala Ser Arg Gln Gly Lys Asn Leu Glu Ala Ala Ser Ala
      35      40      45
Gln Glu Gln Asn Gly His Gln His Arg Ile His Glu Asn Gln His Pro
      50      55      60
Cys Gln Gly Gly Ala Pro Val Ser His His Gln Ala Ala Val Arg Leu
      65      70      75      80
Arg Glu Ser Gln Ile Gln Gly Ala Ala Glu Lys Arg

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85

90

<210> 8318

<211> 397

<212> PRT

<213> Enterobacter cloacae

<400> 8318

Leu His Glu Glu Asn Gly Thr Ser Arg Glu Asn Ser Pro Gly Ala Asp
 1 5 10 15
 Trp Gly Cys Ser His Leu Arg Pro Ile Ser Ala Met Arg Ser Pro Ser
 20 25 30
 Thr Arg Gly Asn Val Phe Trp Phe Ser Gly Pro Gly Asn Ser Ser Gly
 35 40 45
 Ser Arg Ser Cys Leu Leu Asn Gly Ser Lys Leu Pro Glu His Arg His
 50 55 60
 Phe Met Asp Arg Pro Pro Ala Pro Leu Ser Pro Leu Val Met Pro Leu
 65 70 75 80
 Ser Pro Pro Phe Pro Leu Arg Ile Thr Thr Gly Trp Ala Ser Pro Ile
 85 90 95
 Leu Ser Ile Thr Ser Pro Thr Ser Ser Leu Thr Ala Phe Leu Cys Val
 100 105 110
 Leu Arg His Pro Gln Lys Val Leu Thr Arg Ser Phe Leu Lys Arg Trp
 115 120 125
 Leu Arg Leu Arg Pro Ser Trp Arg Leu Leu Pro Met Asn Lys Pro Val
 130 135 140
 Val Leu Ser Asp Leu Asp Asp Thr Leu Phe Gln Thr Arg Arg Lys Met
 145 150 155 160
 Val Asp Glu Leu Ala Leu Glu Pro Phe Arg Thr Gly Ala Val Asp Arg
 165 170 175
 Thr Leu Asn Pro Arg Ser Phe Met Thr Glu Glu Gln Ser Met Leu Val
 180 185 190
 Asp Trp Leu Leu Glu Gln Ala Glu Leu Ile Pro Val Thr Ala Arg Gly
 195 200 205
 Thr Glu Glu Ile Ser Arg Val Arg Ile Pro Phe His Ser Trp Ala Ile
 210 215 220
 Thr Thr His Gly Ala Val Ile Leu Thr Pro Glu Gly Lys Pro Asp Glu
 225 230 235 240
 Glu Trp Lys Ala His Met Leu Gly Gln Leu Ala Pro Tyr Gln Glu Lys
 245 250 255
 Leu Thr Ser Met Gln Arg Leu Ile Thr Glu Met Met Asp Ala Lys Gly
 260 265 270
 Ile Asn Ala Trp Ala Arg Leu Asn Phe Glu Tyr Gly Glu Thr Ala Val
 275 280 285
 Tyr Met Val Met Lys His Arg Asp Ser Thr Arg Leu Asp Glu Leu Asn
 290 295 300
 Ala Ile Ala Asp Glu Ile Glu Thr Val Phe Pro Thr Glu Gly Phe Tyr
 305 310 315 320
 Ile His Arg Asn Ser Asn Asn Val Ala Trp Leu Pro Thr Ala Val Glu
 325 330 335
 Lys Gly Leu Ala Val Arg Trp Leu Leu Glu Lys Leu Arg Ala Glu Arg
 340 345 350
 Gly Val Phe Pro Val Ile Gly Leu Gly Asp Ser Leu Ser Asp His Arg
 355 360 365
 Phe Met Lys Leu Cys Ser Trp Phe Gly Ile Pro Arg Gln Ser Gln Phe
 370 375 380
 Ala Asp Ala Ile Ser Gln Arg Ile Phe Gly Glu Asn
 385 390 395

<210> 8319

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 8319

Lys	Gly	Asn	Ser	Cys	Tyr	Arg	Asn	Gly	Gly	Asn	Pro	Arg	Pro	Val	Ser
1				5					10					15	
Gly	Cys	Asn	His	Tyr	Gln	Glu	Gly	Thr	Leu	Met	Lys	Asn	Arg	Leu	Ser
		20						25					30		
Pro	Trp	Asn	Leu	Gly	Ala	Thr	Leu	Tyr	Met	Pro	Ala	Thr	Arg	Glu	Asp
		35					40					45			
Ile	Ala	Asp	Ala	Val	Leu	His	Gly	Lys	Ile	Pro	Gly	Leu	Arg	Ser	Leu
	50					55				60					
Val	Ile	Cys	Leu	Glu	Asp	Ala	Val	Ser	Glu	Ala	Asp	Ile	Pro	Ile	Ala
65					70					75					80
Leu	Lys	Asn	Leu	Glu	His	Leu	Leu	His	Glu	Leu	Ser	Asn	Ser	Met	Arg
			85						90					95	
Ser	Leu	Gly	Lys	Asn	Asp	Trp	Pro	Leu	Val	Phe	Ile	Arg	Pro	Arg	His
			100					105					110		
Ala	Glu	Met	Gly	Arg	Trp	Leu	Lys	Ala	His	Tyr	Asp	Leu	Ser	Ala	Val
		115					120					125			
Asp	Gly	Phe	Val	Leu	Pro	Lys	Phe	Thr	Leu	Ser	Ser	Leu	Ala	Glu	Trp
	130					135					140				
Trp	Asp	Ile	Met	Gly	Gly	Thr	His	Leu	Cys	Met	Met	Pro	Thr	Leu	Glu
145				150						155					160
Thr	Glu	Asp	Val	Phe	Asp	Val	Val	Gln	Met	Arg	Glu	Leu	Ala	Thr	Arg
			165						170					175	
Leu	Val	Glu	His	Pro	Cys	His	Asp	Arg	Ile	Ile	Ala	Leu	Arg	Ile	Gly
			180					185					190		
Gly	Asn	Asp	Leu	Met	Asn	Val	Val	Ser	Leu	Arg	Arg	Pro	Arg	Asp	Leu
	195					200						205			
Thr	Leu	Tyr	Asp	Ser	Pro	Met	Gly	Tyr	Val	Ile	Lys	Met	Leu	Val	Ser
	210					215					220				
Val	Phe	Gly	Pro	Arg	Asp	Phe	Ala	Leu	Thr	Ala	Pro	Val	Cys	Glu	His
225					230					235					240
Ile	Asp	Asp	His	Ala	Val	Met	Ala	Arg	Glu	Leu	Ala	Leu	Asp	Met	Ala
			245						250					255	
His	Gly	Leu	Val	Gly	Lys	Thr	Ala	Ile	His	Pro	Gly	Gln	Ile	Glu	Val
		260					265						270		
Ile	Gln	Asn	Ala	Leu	Met	Val	Thr	Gln	Gly	Glu	Tyr	Ser	Asp	Ala	Leu
	275					280						285			
Arg	Ile	Leu	Asn	Ser	Thr	Gln	Ala	Val	Phe	Lys	Ser	Gln	Gly	Ala	Met
	290					295					300				
Cys	Glu	Pro	Ala	Thr	His	Arg	Arg	Trp	Ala	Ala	Gly	Ile	Leu	Asp	Arg
305					310					315					320
Ala	Arg	Phe	Tyr	Gly	Leu	Gln	Asn	Glu	Gln	Ser	Ala	Asp	Gly	Ile	Arg
			325						330					335	
Leu	Leu	Thr	Val	Thr	Gln	His	His								
			340					345							

<210> 8320

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 8320

Thr	Thr	Asn	Pro	Leu	Ser	Arg	Leu	Asn	Leu	Thr	Met	Gln	Leu	Asn	Thr
1				5					10					15	
Arg	Gln	Ala	Arg	Ile	Phe	Lys	Leu	Ala	Asn	Leu	Leu	Gly	Thr	Gly	Lys
		20						25					30		
Pro	Val	Ser	Ala	Ala	Asp	Ile	Ile	Thr	Ser	Leu	Glu	Cys	Ser	Glu	Pro
		35					40					45			

Thr Leu Thr Arg Ala Leu Lys Glu Leu Arg Glu Ser Tyr Ser Ala Glu
 50 55 60
 Ile Lys Tyr Ser Lys Ala Gly His Ser Tyr His Leu Val Asn Pro Gly
 65 70 75 80
 Gln Leu Asp Lys Lys Thr Leu Arg Arg Met Asn Glu Ala Leu Ala Gln
 85 90 95
 Asn Ala Glu Leu Lys Thr Gly Glu Ser Thr Gly Lys Val Val Leu Asp
 100 105 110
 Lys Asp Lys Lys Thr Ala Val Ser Leu Ser Leu Arg Met Arg Ile Leu
 115 120 125
 Arg Lys Ile Asp Arg Leu Ala Ala Leu Ser Gly Ser Thr Arg Ser Glu
 130 135 140
 Ala Val Glu Lys Leu Ala Leu His Ser Val Asp Glu Leu Ile Lys Glu
 145 150 155 160
 Tyr Ser Ala Lys Lys Ser
 165

<210> 8321

<211> 249

<212> PRT

<213> Enterobacter cloacae

<400> 8321

Val Phe Asn Leu His Pro Thr Asp Val Val Pro Phe Tyr Gln Ile Asn
 1 5 10 15
 Lys Pro Trp Pro Leu Pro Glu Thr Thr Leu Leu Phe Arg Ser Leu Lys
 20 25 30
 Lys Glu Leu His Leu Arg Arg Leu Pro Val Tyr Leu Leu Asp Thr
 35 40 45
 Ser Gly Ser Met His Gly Glu Pro Ile Glu Ala Val Lys Asn Gly Val
 50 55 60
 Gln Thr Leu Leu Thr Thr Leu Lys Gln Asp Pro Tyr Ala Leu Glu Thr
 65 70 75 80
 Ala His Val Ser Val Ile Thr Phe Asp Ser Ser Ala Arg Gln Ala Val
 85 90 95
 Pro Leu Thr Asp Leu Leu Ser Phe Gln Met Pro Ala Leu Thr Ala Ser
 100 105 110
 Gly Thr Thr Ser Leu Gly Glu Ala Leu Ser Leu Thr Ala Ser Ser Ile
 115 120 125
 Ala Lys Glu Val Gln Lys Thr Thr Ala Asp Thr Lys Gly Asp Trp Arg
 130 135 140
 Pro Leu Val Phe Leu Met Thr Asp Gly Ser Pro Asn Asp Asp Trp Arg
 145 150 155 160
 Lys Gly Leu Asn Asp Phe Lys Ala Ala Arg Thr Gly Val Val Val Ala
 165 170 175
 Cys Ala Ala Gly His Asp Ala Asp Thr Ser Val Leu Lys Glu Ile Thr
 180 185 190
 Glu Ile Val Val Gln Leu Asp Thr Ala Asp Ser Ser Thr Ile Lys Ala
 195 200 205
 Phe Phe Lys Trp Val Ser Ala Ser Ile Ser Val Gly Ser Gln Lys Val
 210 215 220
 Glu Ser Ser Lys Lys Glu Val Ile Gly Leu Glu Asp Leu Pro Pro Pro
 225 230 235 240
 Pro Pro Glu Val Asn Val Val Leu
 245

<210> 8322

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 8322

Ala Phe Arg Ile Arg Phe Val Cys Leu Ala Pro Glu Glu Leu His Val
 1 5 10 15
 Met Arg Arg Leu Pro Val Tyr Leu Val Ile Asp Thr Ser Gly Ser Met
 20 25 30
 Arg Gly Glu Ser Ile His Ser Val Asn Val Gly Ile Gln Ala Met Leu
 35 40 45
 Ser Ala Leu Arg Gln Asp Pro Tyr Ala Leu Glu Ser Val His Ile Ser
 50 55 60
 Ile Ile Thr Tyr Asp Asn Glu Ala Arg Glu Phe Ile Pro Leu Thr Pro
 65 70 75 80
 Leu Glu Asp Phe Gln Phe Ser Asp Ile Val Val Pro Ser Ala Gly Gly
 85 90 95
 Thr Phe Thr Gly Ala Ala Leu Glu Cys Leu Met Gln Cys Val Glu Arg
 100 105 110
 Asp Val Arg Arg Ser Asp Gly Asp Thr Lys Gly Asp Trp Arg Pro Leu
 115 120 125
 Val Phe Leu Met Thr Asp Gly Thr Pro Ser Asp Ala Leu Ala Tyr Gly
 130 135 140
 Glu Ala Val Lys Ala Ile Arg Gly Arg Gly Phe Gly Ser Ile Ile Ala
 145 150 155 160
 Cys Ala Val Gly Pro Lys Ala Gly His Glu His Leu Lys Gln Leu Thr
 165 170 175
 Asp Lys Val Val Ser Leu Glu Thr Leu Asp Ser Thr Ala Phe Ala Gly
 180 185 190
 Phe Phe Lys Trp Val Ser Ala Ser Val Ser Ser Gly Ser Thr Ser Ala
 195 200 205
 Gly Ile Asn Asn Gly Thr Asp Thr Leu Pro Pro Pro Pro Pro Glu Ile
 210 215 220
 Gln Leu Val Leu
 225

<210> 8323

<211> 375

<212> PRT

<213> Enterobacter cloacae

<400> 8323

Gln Thr Glu Arg Cys Cys Phe Arg Ala Ala Pro Phe Cys Thr Ala Thr
 1 5 10 15
 Phe Ser Ala Gly Arg Thr Ser Arg Thr Arg Lys Ile Met Arg Arg Leu
 20 25 30
 Pro Val Phe Phe Val Leu Asp Cys Ser Glu Ser Met Ile Gly Glu Asn
 35 40 45
 Leu Lys Lys Met Thr Asp Gly Leu Gln Met Ile Val Gly Asp Leu Arg
 50 55 60
 Lys Asp Pro His Ala Leu Glu Thr Ala Trp Val Ser Val Ile Ala Phe
 65 70 75 80
 Ala Gly Val Ala Arg Thr Ile Val Pro Leu His Glu Ile Ala Ser Phe
 85 90 95
 Tyr Pro Pro Arg Leu Pro Val Gly Gly Gly Thr Ser Leu Gly Ala Ala
 100 105 110
 Leu Arg Glu Leu Thr Val Gln Ile Asp Thr Gln Val Arg Lys Thr Thr
 115 120 125
 His Glu Ala Lys Gly Asp Trp Lys Pro Val Val Tyr Leu Leu Thr Asp
 130 135 140
 Gly Arg Pro Thr Asp Asp Thr Thr Ala Glu Val Lys Arg Trp Lys Asp
 145 150 155 160
 His Tyr Ala Ser Lys Val Asn Leu Ile Ala Val Gly Leu Gly Pro Ser
 165 170 175
 Ala Asp Leu Asn Ile Leu Arg Gln Leu Thr Glu Asn Val Met Leu Phe

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<210> 8324
<211> 530
<212> PRT
<213> Enterobacter cloacae
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Ala 1	Thr	Gly	Leu	Thr 5	Phe	Ser	Pro	Gln	Gly 10	Thr	Met	Met	Thr	Ala 15	Leu
Leu	Arg	Cys	Cys 20	Gly	Lys	Gly	Tyr	Ala 25	Phe	Ser	Val	Ile	Asn 30	Met	Ala
Asn	Ile	Val 35	Thr	Cys	Lys	Thr	Lys 40	Asp	Gly	Glu	Thr	Val 45	Gln	Tyr	Val
Asp	Glu 50	Val	Ile	Gly	Ser	Gly 55	Ser	Met	Lys	Asp	Val 60	Tyr	Phe	Ser	Pro
Asp 65	Lys	Ser	Tyr	Val	Val 70	Ala	Phe	Tyr	His	Lys 75	Pro	Gln	Asn	Glu 80	Gln
Ala	Arg	Asp	Arg	Ile 85	Asp	Met	Ile	Thr	Gly 90	Arg	Tyr	Arg	Gln	Asn 95	Ile
Phe	Gly	Gln	Ser 100	Gly	Gly	Glu	Tyr	Trp 105	Lys	Asp	Leu	Phe	Cys 110	Trp	Pro
Thr	His	Val 115	Val	Glu	His	Gly	His 120	Lys	Ile	Gly	Ile	Val 125	Val	Pro	Thr
Tyr	Lys 130	Ser	Tyr	Phe	Phe	Phe 135	Lys	Tyr	Gly	Ser	Lys 140	Asn	Asp	Asp	Phe
Leu 145	Gly	Ile	Lys	Gly	Arg 150	Glu	Lys	Glu	Gly	Lys 155	Trp	Phe	Ala	Ser	Ala 160
Ser	Asn	Gln	Asn 165	Lys	Phe	Leu	Asp	Pro	Arg 170	Glu	Arg	Gly	Asn 175	Thr	Leu
Thr	Tyr	Leu	Lys 180	Val	Cys	Leu	Leu 185	Leu	Thr	Arg	Ala	Val	Arg 190	Arg	Met
His	Ala 195	Ala	Gly	Leu	Cys	His	Ser 200	Asp	Leu	Ser	Tyr	Lys 205	Asn	Val	Leu
Ile	Asp 210	Pro	Glu	Met	Gly	His 215	Ala	Cys	Ile	Ile	Asp 220	Val	Asp	Gly	Leu
Val	Val	Pro	Gly	Lys	Tyr	Pro	Pro	Asp	Val	Val	Gly	Thr	Pro	Asp	Phe

225 230 235 240
 Ile Ala Pro Glu Val Val Lys Thr Ser His Leu Ser Lys Glu Asp Pro
 245 250 255
 Asn Arg Val Leu Pro Ser Ile Thr Thr Asp Arg His Ala Leu Ser Val
 260 265 270
 Leu Ile Tyr Met Tyr Leu Phe Phe Arg His Pro Leu Arg Gly Gly Lys
 275 280 285
 Ile His Asp Met Ser Asp Glu Val Arg Asp Glu Thr Leu Ser Met Gly
 290 295 300
 Glu Lys Ala Leu Phe Ile Glu His Pro Thr Asp Lys Ser Asn Ala Val
 305 310 315 320
 Lys Val Ser Gln Leu Ser Ser Phe Ser Leu Pro Trp Ala Asp Pro Glu
 325 330 335
 Lys Ile Pro Tyr Thr Ile Met Gly Pro Tyr Leu Thr Pro Leu Phe Glu
 340 345 350
 Arg Ala Phe Ile Asp Gly Leu His Asp Ala Thr Lys Arg Pro Thr Ala
 355 360 365
 Asp Glu Trp Glu Ser Ala Leu Val Lys Thr Val Asp Leu Ile Gln Pro
 370 375 380
 Cys Gln Asn Lys Ala Cys Glu Gln Lys Trp Tyr Val Phe Ser Gly Lys
 385 390 395 400
 Thr Lys Pro Val Cys Pro Tyr Cys Gly Thr Pro Tyr Lys Gly Lys Leu
 405 410 415
 Pro Val Leu Asn Leu Tyr Ser Ser Arg Lys Glu Gly Ser Tyr Arg Pro
 420 425 430
 Asp Asp His Arg Leu Met Val Trp Ser Gly Gln Ser Ile Tyr Ala Trp
 435 440 445
 His Val Asn Arg Leu Ile Ala Pro Asn Glu Arg Thr Thr Asp Ala Gln
 450 455 460
 Arg Lys Arg Val Gly Tyr Phe Val Phe His Asn Asp Gln Trp Trp Leu
 465 470 475 480
 Val Asn Glu Gly Ile Asn Arg Leu Met Ser Leu Pro Asp Lys Arg Gln
 485 490 495
 Ile Ala Ile Gly Glu Lys Ile Glu Leu Thr Asn Asn Ala Gln Phe Val
 500 505 510
 Leu Ser Lys Glu Glu Gly Gly Arg Leu Val Val Val Gln Leu Val Glu
 515 520 525
 Asn
 530

<210> 8325

<211> 342

<212> PRT

<213> Enterobacter cloacae

<400> 8325

Tyr Glu Ile Ile Ile Phe Ile Arg Ser Ala Ser Gln Arg Asp Ile Met
 1 5 10 15
 Ser His Gln Leu Thr Phe Ala Asp Ser Glu Phe Ser Thr Lys Arg Arg
 20 25 30
 Gln Thr Arg Lys Glu Ile Phe Leu Ser Arg Met Glu Gln Ile Leu Pro
 35 40 45
 Trp Gln Asn Met Thr Ala Val Ile Glu Pro Phe Tyr Pro Lys Ala Gly
 50 55 60
 Asn Gly Arg Arg Pro Tyr Pro Leu Glu Thr Met Leu Arg Ile His Cys
 65 70 75 80
 Met Gln His Trp Tyr Asn Leu Ser Asp Gly Ala Met Glu Asp Ala Leu
 85 90 95
 Tyr Glu Ile Ala Ser Met Arg Leu Phe Ala Arg Leu Ser Leu Asp Ser
 100 105 110
 Ala Leu Pro Asp Arg Thr Thr Ile Met Asn Phe Arg His Leu Leu Glu

115					120					125					
Gln	His	Gln	Leu	Ala	Arg	Gln	Leu	Phe	Lys	Thr	Ile	Asn	Arg	Trp	Leu
130						135					140				
Ala	Glu	Ala	Gly	Val	Ile	Met	Thr	Gln	Gly	Thr	Leu	Val	Asp	Ala	Thr
145					150					155					160
Ile	Ile	Glu	Ala	Pro	Ser	Ser	Thr	Lys	Asn	Lys	Glu	Gln	Gln	Arg	Asp
				165					170					175	
Pro	Glu	Met	His	Gln	Thr	Lys	Lys	Gly	Asn	Gln	Trp	His	Phe	Gly	Met
			180					185					190		
Lys	Ala	His	Ile	Gly	Val	Asp	Ala	Lys	Ser	Gly	Leu	Thr	His	Ser	Leu
		195					200					205			
Val	Thr	Thr	Ala	Ala	Asn	Glu	His	Asp	Leu	Asn	Gln	Leu	Gly	Asn	Leu
		210				215					220				
Leu	His	Gly	Glu	Glu	Gln	Phe	Val	Ser	Ala	Asp	Ala	Gly	Tyr	Gln	Gly
225					230					235					240
Ala	Pro	Gln	Arg	Glu	Glu	Leu	Ala	Glu	Val	Asp	Val	Asp	Trp	Leu	Ile
				245					250					255	
Ala	Glu	Arg	Pro	Gly	Lys	Val	Lys	Thr	Leu	Lys	Gln	His	Pro	Arg	Lys
			260					265					270		
Asn	Lys	Thr	Ala	Ile	Asn	Ile	Glu	Tyr	Met	Lys	Thr	Ser	Ile	Arg	Ala
		275					280					285			
Lys	Val	Glu	His	Pro	Phe	Arg	Ile	Ile	Lys	Arg	Gln	Phe	Gly	Phe	Val
		290				295					300				
Lys	Ala	Arg	Tyr	Lys	Gly	Leu	Leu	Lys	Asn	Asp	Asn	Gln	Leu	Ala	Met
305					310					315					320
Leu	Phe	Thr	Leu	Ala	Asn	Leu	Phe	Arg	Val	Asp	Gln	Met	Ile	Arg	Gln
				325					330					335	
Trp	Glu	Arg	Ser	Gln											
			340												

<210> 8326

<211> 412

<212> PRT

<213> Enterobacter cloacae

<400> 8326

Arg	Leu	Val	Gly	Ile	Leu	Pro	Pro	Ile	Arg	Cys	Leu	Cys	Asn	Ser	Ser
1			5						10					15	
Ala	Arg	Arg	Pro	Val	Asp	Asp	Thr	Ala	Gly	Leu	Cys	Lys	Ser	Leu	Pro
			20					25					30		
Gly	Tyr	Ser	Phe	Leu	Phe	Phe	Val	Arg	Tyr	Thr	Met	Ser	Lys	Leu	Phe
		35					40					45			
Thr	Pro	Tyr	Asn	Leu	Ser	Gly	Leu	Ala	Leu	Lys	Asn	Arg	Val	Val	Met
		50				55					60				
Ala	Pro	Met	Thr	Arg	Thr	Arg	Thr	Met	Asn	Asp	Val	Pro	Asp	Glu	Val
65					70				75					80	
Val	Ala	Leu	Tyr	Tyr	Ala	Gln	Arg	Ala	Ser	Ala	Gly	Leu	Leu	Ile	Thr
			85						90					95	
Glu	Gly	Met	Pro	Val	Ser	Glu	Glu	Gly	Arg	Gly	Tyr	Leu	Tyr	Thr	Pro
			100					105					110		
Gly	Ile	Tyr	Asn	Asp	Glu	His	Val	Gln	Gly	Trp	Arg	Lys	Val	Thr	Gln
		115					120					125			
Ala	Val	His	Ala	Lys	Gly	Gly	Cys	Ile	Phe	Ala	Gln	Leu	Trp	His	Val
		130				135					140				
Gly	Arg	Met	Ser	His	Val	Ser	Leu	Gln	Pro	Gly	His	Ile	Ala	Pro	Val
145					150					155					160
Ser	Ala	Gly	Thr	Val	Gln	Ala	Val	Asn	Thr	Thr	Val	Phe	Ala	Leu	Thr
				165					170					175	
Glu	Ser	Gly	Glu	Pro	Gly	Pro	Val	Val	Pro	Ser	Gln	Pro	Arg	Ala	Leu
			180					185					190		
Glu	Thr	His	Glu	Val	Lys	Arg	Ile	Thr	Ala	Asp	Phe	Val	His	Ser	Ala

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<210> 8327
<211> 140
<212> PRT
<213> Enterobacter cloacae
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<210> 8328
<211> 262
<212> PRT
<213> Enterobacter cloacae
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<400> 8328
Trp Ser Gln Lys Met Asn Thr Phe Phe Lys Gly Lys Lys Leu Leu Val
1 5 10 15

Val Gly Gly Thr Ser Gly Met Gly Leu Ala Val Ala Arg Met Val Leu
 20 25 30
 Glu Ala Gly Gly Ser Val Val Leu Thr Gly Asn Lys Lys Asp Lys Ala
 35 40 45
 Glu Ala Val Gln Lys Glu Leu Ser Pro Leu Gly Pro Val Ala Val Ile
 50 55 60
 Ala Ala Asn Leu Met Thr Glu Glu Gly Met Glu Thr Ile Arg Gln Glu
 65 70 75 80
 Ile Asn Ala His His Arg Asp Ile Ser Leu Met Val Asn Ala Ala Gly
 85 90 95
 Ile Phe Met Pro Lys Gly Phe Thr Glu His Ser Phe Ala Asp Tyr Asp
 100 105 110
 Met Tyr Leu Ser Leu Asn Arg Ala Thr Phe Phe Ile Thr Gln Asp Val
 115 120 125
 Val Lys Asn Met Leu Ala Ala Lys Leu Glu Gly Ser Ile Val Asn Val
 130 135 140
 Gly Ser Ile Gly Ala Gln Ala Ala Leu Gly Asp Ser Pro Ala Ser Ala
 145 150 155 160
 Tyr Ser Met Ala Lys Ala Gly Leu His Ala Leu Thr Arg Asn Leu Ala
 165 170 175
 Ile Glu Leu Ala Ser Ala Gly Ile Arg Val Asn Ala Val Ser Pro Gly
 180 185 190
 Ile Val His Thr Pro Ile Tyr Glu Gly Phe Met Asp Lys Ala Asp Ile
 195 200 205
 Ala Asp Ala Met Lys Ser Leu Ser Asp Phe His Pro Leu Gly Arg Val
 210 215 220
 Gly Thr Ala Glu Asp Val Ala Asn Thr Ile Leu Phe Leu Leu Ser Asp
 225 230 235 240
 Lys Thr Ser Trp Val Thr Gly Ala Ile Trp Asp Val Asp Ala Gly Ile
 245 250 255
 Met Ala Val Arg Arg
 260

<210> 8329

<211> 100

<212> PRT

<213> Enterobacter cloacae

<400> 8329

Ala Val Gly Gln Ala Thr Leu Gly Ile Asp Thr Asn Val Gly Leu His
 1 5 10 15
 Ala Lys Val Pro Leu Ile Ala Phe Leu Gly Leu Met His Leu Arg Ile
 20 25 30
 Ala Leu Leu Leu Phe Val Leu Gly Arg Ala Gly Cys Leu Asn Asp Gly
 35 40 45
 Gly Ile His Gln Ser Ala Leu Gly His Asn Asp Ala Cys Phe Gly Gln
 50 55 60
 Pro Ala Ile Asp Gly Leu Glu Gln Leu Thr Gly Gln Leu Met Leu Leu
 65 70 75 80
 Glu Gln Val Ala Glu Ile His Asp Gly Gly Ala Ile Arg Gln Gly Ala
 85 90 95
 Ile Gln Gly
 100

<210> 8330

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 8330

Ser Gly Lys Gln Ala His Gly Gly Asp Phe Val Gln Gly Ile Phe His

1				5					10				15		
Gly	Thr	Val	Ala	Gln	Val	Val	Pro	Met	Leu	His	Ala	Val	Asn	Thr	Gln
			20					25					30		
His	Gly	Leu	Gln	Arg	Ile	Gly	Pro	Ser	Ala	Ile	Ala	Arg	Leu	Gly	Ile
		35					40					45			
Lys	Arg	Leu	Asp	Asp	Ser	Gly	His	Ile	Leu	Pro	Trp	Gln	Asn	Leu	Leu
		50				55					60				
His	Ala	Gly	Glu	Glu	Asn	Leu	Phe	Ser	Gly	Leu	Thr	Ala	Leu	Ser	Ala
65					70					75					80
Glu	Phe	Thr	Ile	Gly	Glu	Gly	Glu	Leu	Met	Ala	His	Asp	Val	Pro	Leu
			85						90					95	
Gly	Cys	Ala	Pro	Asp	Glu	Tyr	Asp	Asp	Leu	Ile	Ser	Gly	Thr	Cys	Ser
			100					105					110		
His	Leu	Pro	Leu	Tyr	Arg	His	His	Ser	Phe	Leu	His	Met	Thr	His	
		115					120					125			

<210> 8331

<211> 237

<212> PRT

<213> Enterobacter cloacae

<400> 8331

Gly	Ile	Ile	Met	Gln	Thr	Leu	Lys	Pro	Thr	Leu	Thr	Ile	Asp	Ile	Trp
1				5					10					15	
Ser	Asp	Leu	Val	Cys	Pro	Trp	Cys	Trp	Ile	Ala	Lys	Lys	Arg	Phe	Glu
			20					25					30		
Gln	Gly	Leu	Asn	Arg	Phe	Glu	Phe	Arg	Asp	Gln	Val	Val	Ile	Arg	His
		35					40				45				
His	Ser	Tyr	Arg	Leu	Ala	Gly	Gly	Thr	Pro	Ala	Met	Pro	Phe	Lys	Asp
		50				55					60				
Ala	Ile	Val	Lys	Lys	Leu	Gly	Ser	Gln	His	Ser	Ala	Glu	Leu	Met	Met
65					70					75					80
Asn	Gln	Val	Gly	Thr	Ala	Gly	Lys	Ser	Glu	Cys	Leu	Ile	Tyr	Asn	Phe
			85						90					95	
Asp	Gly	Met	Met	Phe	Gly	Asp	Thr	Glu	Asp	Ala	His	Thr	Leu	Leu	Val
			100					105					110		
Ala	Ala	Arg	Lys	Ala	Gly	Ile	Ala	Asp	Ala	Val	Glu	Glu	Arg	Phe	Tyr
		115					120					125			
His	Gly	Ser	Ile	Thr	Glu	Gly	Arg	Ser	Leu	Phe	Asp	Arg	Gln	Gln	Leu
	130					135					140				
Val	Ala	Met	Ala	Val	Glu	Ala	Gly	Met	Pro	Lys	Ala	Asp	Ala	Glu	Ala
145					150					155					160
Ala	Leu	Glu	Asn	Asp	Asp	Phe	Arg	Ala	Thr	Val	Ser	Asp	Asp	Glu	Ala
			165						170					175	
His	Ala	Gln	Ser	Ile	Gly	Leu	Ser	Gly	Val	Pro	Val	Phe	Val	Met	Asn
			180					185					190		
Glu	Lys	Tyr	Ala	Ile	Ser	Gly	Ala	Gln	Ala	Ala	Asp	Asn	Phe	Leu	Asn
		195					200					205			
Ala	Leu	Arg	Gln	Val	Trp	Asp	Glu	Gln	Gln	Thr	Glu	Phe	Ser	Ala	Thr
		210				215					220				
Ala	Gly	Gln	Thr	Cys	Gly	Thr	Asp	Gly	Cys	Ser	Ile				
225					230					235					

<210> 8332

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 8332

Thr	Arg	Arg	Ser	Ser	Leu	Pro	Arg	Gly	His	Asp	Met	Arg	Gly	Asp	Cys
1				5					10					15	

Arg	Arg	Cys	Gln	Pro	Ala	Ser	Val	Arg	Gly	Phe	Ile	Thr	Cys	Thr	Ser	
			20					25					30			
Glu	Asn	Ala	Asp	Pro	Arg	Ala	Asp	Arg	Glu	Glu	Pro	Met	Ile	Pro	Leu	
		35					40					45				
Pro	Ser	Gly	Thr	Arg	Ile	Trp	Leu	Val	Ala	Gly	Val	Thr	Asp	Met	Arg	
	50					55					60					
Lys	Ser	Phe	Asn	Gly	Leu	Gly	Glu	Leu	Val	Gln	His	Val	Leu	Asp	Asp	
65				70						75					80	
Asn	Pro	Phe	Ser	Gly	His	Leu	Phe	Ile	Phe	Arg	Gly	Arg	Lys	Gly	Asp	
				85					90					95		
Thr	Val	Arg	Ile	Leu	Trp	Ala	Asp	Ala	Asp	Gly	Leu	Cys	Leu	Phe	Thr	
			100					105					110			
Lys	Arg	Leu	Glu	Glu	Gly	Gln	Phe	Val	Trp	Pro	Ala	Val	Arg	Asp	Gly	
		115					120					125				
Lys	Ile	Ala	Ile	Thr	Arg	Ser	Gln	Leu	Ala	Met	Leu	Leu	Asp	Lys	Leu	
	130					135					140					
Asp	Trp	Arg	Gln	Pro	Lys	Thr	Ala	Arg	Leu	Asn	Ser	Leu	Thr	Met	Leu	
145					150					155					160	

<210> 8333

<211> 541

<212> PRT

<213> Enterobacter cloacae

<400> 8333

Lys	Ala	His	Asp	Arg	Ile	Ile	Asn	Gly	Val	Met	Ser	Gln	Asp	Tyr	Leu	
1				5					10					15		
Ala	Arg	Ile	Ala	Ala	Leu	Glu	Asp	Ala	Leu	Arg	Gln	Lys	Asp	Ser	Gln	
			20					25					30			
Leu	Ser	Leu	Val	Ala	Glu	Thr	Glu	Ser	Phe	Leu	Arg	Ser	Ala	Leu	Ala	
		35					40					45				
Arg	Ala	Glu	Glu	Lys	Ile	Glu	Asn	Glu	Glu	Arg	Glu	Ile	Glu	Tyr	Leu	
	50					55					60					
Arg	Ala	Gln	Ile	Glu	Lys	Leu	Arg	Arg	Met	Leu	Phe	Gly	Thr	Arg	Ser	
65					70				75						80	
Glu	Lys	Leu	Arg	Arg	Gln	Val	Glu	Glu	Ala	Glu	Ala	Leu	Leu	Lys	Gln	
				85					90					95		
Gln	Glu	Gln	Gln	Ser	Asp	Arg	Tyr	Asn	Gly	Arg	Asp	Asn	Asp	Gln	Gln	
			100					105					110			
Val	Pro	Arg	Gln	Leu	Arg	Gln	Ser	Arg	His	Arg	Arg	Pro	Leu	Pro	Glu	
		115					120					125				
His	Leu	Pro	Arg	Glu	Ile	Asn	Arg	Leu	Glu	Pro	Ala	Glu	Thr	Ser	Cys	
	130					135					140					
Pro	Gly	Cys	Gly	Ser	Asp	Met	Ala	Tyr	Leu	Ser	Glu	Val	Ser	Ala	Glu	
145					150				155						160	
Gln	Leu	Glu	Leu	Val	Ser	Ser	Ala	Leu	Lys	Val	Ile	Arg	Thr	Val	Arg	
				165					170					175		
Val	Lys	Lys	Ala	Cys	Thr	Arg	Cys	Asp	Cys	Val	Val	Glu	Ala	Pro	Ala	
			180					185					190			
Pro	Ser	Arg	Pro	Ile	Asp	Arg	Gly	Ile	Ala	Gly	Pro	Gly	Leu	Leu	Ala	
		195					200					205				
Arg	Val	Leu	Thr	Ala	Lys	Tyr	Cys	Glu	His	Leu	Pro	Leu	Tyr	Arg	Gln	
	210					215					220					
Cys	Glu	Ile	Phe	Ala	Arg	Gln	Gly	Val	Asp	Leu	Ser	Arg	Ala	Leu	Leu	
225					230					235					240	
Ser	Asn	Trp	Val	Asp	Ala	Cys	Cys	Arg	Leu	Met	Ala	Pro	Leu	Asp	Glu	
				245					250					255		
Ala	Leu	Tyr	His	Tyr	Val	Met	Asp	Cys	Arg	Lys	Leu	His	Thr	Asp	Asp	
			260					265					270			

Thr	Pro	Val	Pro	Val	Leu	Ala	Pro	Gly	Arg	Lys	Lys	Thr	Lys	Thr	Gly
		275					280					285			
Arg	Ile	Trp	Thr	Tyr	Val	Arg	Asp	Asn	Arg	Ser	Ala	Gly	Ser	Ser	Asp
	290					295					300				
Pro	Pro	Ala	Ala	Trp	Phe	Ala	Phe	Ser	Pro	Asp	Arg	Gln	Gly	Lys	His
305					310					315					320
Pro	Gln	Gln	His	Leu	Arg	His	Tyr	His	Gly	Val	Leu	Gln	Ala	Asp	Ala
				325					330					335	
Phe	Ala	Gly	Tyr	Asp	Arg	Leu	Phe	Ser	Ala	Glu	Arg	Glu	Gly	Gly	Pro
			340					345					350		
Leu	Thr	Glu	Ala	Ala	Cys	Trp	Ala	His	Ala	Arg	Arg	Lys	Ile	His	Asp
		355					360					365			
Val	Tyr	Ile	Ser	Thr	Arg	Thr	Ala	Thr	Ala	Glu	Glu	Ala	Leu	Lys	Arg
	370					375						380			
Ile	Ser	Glu	Leu	Tyr	Ala	Ile	Glu	Glu	Glu	Ile	Arg	Gly	Leu	Pro	Ala
385					390					395					400
Ser	Gln	Arg	Leu	Ala	Ala	Arg	Arg	Ser	Arg	Ser	Lys	Pro	Leu	Leu	Ile
				405					410					415	
Ser	Leu	His	Asp	Trp	Leu	Val	Glu	Lys	Arg	Ala	Thr	Leu	Ser	Lys	Lys
			420					425					430		
Ser	Arg	Leu	Gly	Glu	Ala	Phe	Ala	Tyr	Ala	Leu	Asn	Gln	Trp	Asp	Ala
		435					440					445			
Leu	Cys	Tyr	Tyr	Cys	Asp	Asp	Gly	Leu	Ala	Glu	Pro	Asp	Asn	Asn	Ala
	450					455					460				
Ala	Glu	Arg	Ala	Leu	Arg	Ala	Val	Cys	Leu	Gly	Lys	Lys	Asn	Tyr	Ile
465					470					475					480
Phe	Phe	Gly	Ser	Asp	His	Gly	Gly	Glu	Arg	Gly	Ala	Leu	Leu	Tyr	Gly
				485					490					495	
Leu	Ile	Gly	Thr	Cys	Arg	Leu	Asn	Gly	Ile	Asp	Pro	Glu	Gly	Tyr	Leu
			500					505					510		
Arg	His	Ile	Leu	Ser	Val	Leu	Pro	Glu	Trp	Pro	Ile	Asn	Lys	Val	Ala
		515					520					525			
Glu	Leu	Leu	Pro	Trp	Asn	Val	Asp	Leu	Thr	Asn	Lys				
	530					535					540				

<210> 8334

<211> 276

<212> PRT

<213> Enterobacter cloacae

<400> 8334

Thr	Met	Gln	Gln	Leu	Gln	Asn	Val	Ile	Glu	Ser	Ala	Phe	Glu	Arg	Arg
1				5					10					15	
Ala	Asp	Ile	Thr	Pro	Ala	Asn	Val	Asp	Thr	Val	Thr	Arg	Glu	Ala	Val
			20					25					30		
Asn	Gln	Val	Ile	Ser	Leu	Leu	Asp	Ser	Gly	Ala	Leu	Arg	Val	Ala	Glu
		35					40					45			
Lys	Ile	Asp	Gly	Gln	Trp	Val	Thr	His	Gln	Trp	Leu	Lys	Lys	Ala	Val
	50					55					60				
Leu	Leu	Ser	Phe	Arg	Ile	Asn	Asp	Asn	Gln	Val	Ile	Asp	Gly	Ala	Glu
65					70					75					80
Ser	Arg	Tyr	Phe	Asp	Lys	Val	Pro	Met	Lys	Phe	Ala	Asp	Tyr	Asp	Glu
				85					90					95	
Ala	Arg	Phe	Gln	Lys	Glu	Gly	Phe	Arg	Val	Val	Pro	Pro	Ala	Ala	Val
			100					105					110		
Arg	Gln	Gly	Ala	Phe	Ile	Ala	Arg	Asn	Thr	Val	Leu	Met	Pro	Ser	Tyr
		115					120					125			
Val	Asn	Ile	Gly	Ala	Tyr	Val	Asp	Glu	Gly	Thr	Met	Val	Asp	Thr	Trp
	130					135					140				
Ala	Thr	Val	Gly	Ser	Cys	Ala	Gln	Ile	Gly	Lys	Asn	Val	His	Leu	Ser
145					150					155					160

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<210> 8335
<211> 141
<212> PRT
<213> Enterobacter cloacae
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<210> 8336
<211> 914
<212> PRT
<213> Enterobacter cloacae
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<400> 8336															
Val	Ile	Arg	Ser	Arg	Arg	Met	Pro	Ala	Phe	Leu	Met	Ala	Ile	Ala	Phe
1				5					10					15	
Ser	Tyr	Gly	Trp	Arg	Thr	Met	Ser	Asn	Leu	Leu	Pro	Glu	Gln	Tyr	Ala
			20					25					30		
Asn	Thr	Ala	Leu	Pro	Thr	Leu	Pro	Asp	Gln	Pro	Asp	Asn	Pro	Gly	Val
		35					40					45			
Trp	Pro	Pro	His	Glu	Leu	Thr	Cys	Ala	His	Ile	Lys	Ala	His	Met	Glu
	50					55					60				
Val	Phe	His	Arg	Trp	Leu	Gly	Ser	Ala	Phe	Asp	Ala	Gly	Val	Ser	Ala
65				70						75				80	
Glu	Gln	Leu	Ile	Glu	Ala	Arg	Thr	Glu	Phe	Ile	Asp	Gln	Leu	Leu	Gln
				85					90					95	
Arg	Leu	Trp	Ile	Asp	Tyr	Gly	Phe	Gly	Gln	Val	Ser	Asp	Val	Ala	Leu

			100					105					110			
Val	Ala	Val	Gly	Gly	Tyr	Gly	Arg	Gly	Glu	Leu	His	Pro	Leu	Ser	Asp	
		115					120					125				
Ile	Asp	Leu	Leu	Ile	Leu	Ser	Arg	Lys	Lys	Leu	Pro	Asp	Asp	Arg	Ala	
	130					135					140					
Gln	Lys	Ile	Gly	Glu	Leu	Leu	Thr	Leu	Leu	Trp	Asp	Val	Lys	Leu	Glu	
145					150					155					160	
Val	Gly	His	Ser	Val	Arg	Thr	Leu	Glu	Glu	Cys	Leu	Leu	Glu	Gly	Leu	
				165					170					175		
Ser	Asp	Leu	Thr	Val	Ala	Thr	Asn	Leu	Ile	Glu	Thr	Arg	Leu	Leu	Ile	
			180					185					190			
Gly	Asp	Val	Ala	Leu	Phe	Leu	Glu	Leu	Gln	Lys	His	Ile	Phe	Ser	Asp	
	195						200					205				
Gly	Phe	Trp	Pro	Ser	Glu	Lys	Phe	Phe	Ala	Ala	Lys	Val	Glu	Glu	Gln	
	210					215					220					
Asn	Gln	Arg	His	Gln	Arg	Tyr	His	Gly	Thr	Ser	Tyr	Asn	Leu	Glu	Pro	
225					230					235					240	
Asp	Ile	Lys	Ser	Ser	Pro	Gly	Gly	Leu	Arg	Asp	Ile	His	Thr	Leu	Gln	
				245					250					255		
Trp	Val	Ala	Arg	Arg	His	Phe	Gly	Ala	Thr	Ser	Leu	Asp	Glu	Met	Val	
			260					265					270			
Gly	Phe	Gly	Phe	Leu	Thr	Glu	Ala	Glu	Arg	Asn	Glu	Leu	Asn	Glu	Cys	
		275					280					285				
Leu	His	Leu	Leu	Trp	Arg	Ile	Arg	Phe	Ala	Leu	His	Leu	Glu	Val	Thr	
	290					295					300					
Arg	Tyr	Asp	Asn	Arg	Leu	Phe	Asp	Arg	Gln	Leu	Ser	Val	Ala	Gln		
305					310				315					320		
Arg	Leu	Asn	Tyr	Gln	Gly	Glu	Gly	Asn	Glu	Pro	Val	Glu	Gln	Met	Met	
				325					330					335		
Lys	Asp	Phe	Phe	Arg	Val	Thr	Arg	Arg	Val	Ser	Glu	Leu	Asn	Gln	Met	
			340					345					350			
Leu	Leu	Gln	Leu	Phe	Asp	Glu	Ala	Ile	Leu	Ala	Leu	Thr	Ala	Asp	Glu	
		355					360					365				
Lys	Pro	Arg	Pro	Ile	Asp	Asp	Glu	Phe	Gln	Leu	Arg	Gly	Thr	Leu	Ile	
	370					375					380					
Asp	Leu	Arg	Asp	Glu	Thr	Leu	Phe	Ile	Arg	Glu	Pro	Glu	Ala	Ile	Leu	
385					390					395					400	
Arg	Met	Phe	Tyr	Thr	Met	Val	Arg	Asn	Ser	Thr	Ile	Thr	Gly	Ile	Tyr	
				405					410					415		
Ser	Thr	Thr	Leu	Arg	His	Leu	Arg	His	Ala	Arg	Arg	His	Leu	Lys	Gln	
			420					425					430			
Pro	Leu	Cys	Tyr	Ile	Pro	Glu	Ala	Arg	Ser	Leu	Phe	Leu	Arg	Met	Leu	
		435					440					445				
Arg	His	Pro	Gly	Ala	Val	Ser	Arg	Gly	Leu	Leu	Pro	Met	His	Arg	His	
	450					455										

Asp Pro Glu Val Ile Lys Gln Phe Ala Glu Glu Val Gln Thr Glu Asn
 595 600 605
 Arg Leu Arg Tyr Leu Val Cys Leu Thr Val Ala Asp Ile Cys Ala Thr
 610 615 620
 Asn Glu Thr Leu Trp Asn Ser Trp Lys Gln Ser Leu Leu Arg Glu Leu
 625 630 635 640
 Tyr Phe Ala Thr Glu Lys Gln Leu Arg Arg Gly Met Gln Asn Thr Pro
 645 650 655
 Asp Met Arg Glu Arg Val Arg His His Gln Leu Gln Ala Leu Ala Leu
 660 665 670
 Leu Arg Met Asp Asn Ile Asn Glu Glu Ala Leu His Gln Ile Trp Ala
 675 680 685
 Arg Cys Arg Ala Asn Tyr Phe Val Arg His Ser Pro Asn Gln Leu Ala
 690 695 700
 Trp His Val Arg His Leu Leu Lys His Asp Leu Thr Lys Pro Met Ile
 705 710 715 720
 Leu Leu Ser Pro Gln Ala Thr Arg Gly Gly Thr Glu Ile Phe Ile Trp
 725 730 735
 Ser Pro Asp Arg Pro Tyr Leu Phe Ala Ala Val Cys Ala Glu Leu Asp
 740 745 750
 Arg Arg Asn Leu Ser Val His Asp Ala Gln Ile Phe Thr Thr Arg Asp
 755 760 765
 Gly Met Ala Met Asp Thr Phe Ile Val Leu Glu Pro Asp Gly Ser Pro
 770 775 780
 Leu Ser Ser Asp Arg His Glu Gly Ile Arg Phe Gly Leu Glu Gln Ala
 785 790 795 800
 Ile Thr Gln Arg Ser Trp Gln Pro Pro Gln Pro Arg Arg Gln Ala Ala
 805 810 815
 Lys Leu Arg His Phe Thr Val Asp Thr Glu Val Asn Phe Leu Pro Thr
 820 825 830
 His Thr Asp Arg Lys Ser Phe Leu Glu Leu Ile Ala Leu Asp Gln Pro
 835 840 845
 Gly Leu Leu Ala Arg Val Gly Gln Val Phe Ala Asp Leu Gly Ile Ser
 850 855 860
 Leu His Gly Ala Arg Ile Thr Thr Ile Gly Glu Arg Val Glu Asp Leu
 865 870 875 880
 Phe Ile Ile Ala Thr Ala Asp Arg Arg Ala Leu Asn Asn Asp Leu Gln
 885 890 895
 Leu Glu Val Gln Gln Arg Leu Thr Ala Ala Leu Asn Pro Asn Asp Lys
 900 905 910
 Gly

<210> 8337

<211> 249

<212> PRT

<213> Enterobacter cloacae

<400> 8337

Pro His Asp Arg Leu Cys Ile Leu Thr Arg His Ile Ala Ser Lys Ser
 1 5 10 15
 Met Lys Ile Gly Ile Ile Gly Ala Met Glu Glu Glu Val Thr Leu Leu
 20 25 30
 Arg Asp Lys Ile Glu Asn Arg Gln Thr Leu Ser Leu Gly Gly Cys Glu
 35 40 45
 Ile Tyr Thr Gly Gln Leu Asn Gly Val Asp Val Ala Leu Leu Lys Ser
 50 55 60
 Gly Ile Gly Lys Val Ala Ala Ala Leu Gly Ala Thr Leu Leu Leu Glu
 65 70 75 80
 Arg Cys Lys Pro Asp Val Ile Ile Asn Thr Gly Ser Ala Gly Gly Leu
 85 90 95

Ala Pro Thr Leu Lys Val Gly Asp Ile Val Val Ser Asp Glu Ala Arg
 100 105 110
 Tyr His Asp Ala Asp Val Thr Ala Phe Gly Tyr Glu Tyr Gly Gln Leu
 115 120 125
 Pro Gly Cys Pro Ala Gly Phe Lys Ala Asp Asp Lys Leu Ile Ala Ala
 130 135 140
 Ala Glu Ser Cys Ile Asn Glu Leu Asn Leu Asn Ala Val Arg Gly Leu
 145 150 155 160
 Ile Val Ser Gly Asp Ala Phe Ile Asn Gly Ser Val Gly Leu Ala Lys
 165 170 175
 Ile Arg His Asn Phe Pro Gln Ala Val Ala Val Glu Met Glu Ala Thr
 180 185 190
 Ala Ile Ala His Val Cys His Asn Phe Ser Val Pro Phe Val Val Val
 195 200 205
 Arg Ala Ile Ser Asp Val Ala Asp Gln Gln Ser His Ile Ser Phe Asp
 210 215 220
 Glu Phe Leu Ala Val Ala Ala Lys Gln Ser Thr Val Met Val Glu Thr
 225 230 235 240
 Leu Val Gln Lys Leu Ala Arg Gly
 245

<210> 8338

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 8338

Thr Arg Gln Pro Ala Tyr Tyr Pro Arg Arg Lys Thr Thr Leu Arg Arg
 1 5 10 15
 Thr Gly Arg Glu Ser Leu Lys Gln Ile Asn Thr Pro Phe Glu Asp Leu
 20 25 30
 Thr Met Leu Val Tyr Trp Leu Asp Ile Leu Gly Thr Ala Val Phe Ala
 35 40 45
 Ile Ser Gly Val Leu Leu Ala Gly Lys Leu Arg Met Asp Pro Phe Gly
 50 55 60
 Val Leu Val Leu Gly Val Val Thr Ala Val Gly Gly Gly Thr Ile Arg
 65 70 75 80
 Asp Met Ala Leu Ala Asn Gly Pro Val Phe Trp Val Lys Asp Pro Thr
 85 90 95
 Asp Leu Val Val Ala Met Val Thr Cys Leu Leu Thr Ile Val Leu Val
 100 105 110
 Arg Gln Pro Arg Arg Leu Pro Lys Trp Ile Leu Pro Val Leu Asp Ala
 115 120 125
 Val Gly Leu Ala Val Phe Val Gly Ile Gly Val Asn Lys Ala Phe Ile
 130 135 140
 Ala Gly Thr Gly Pro Leu Val Ala Ile Cys Met Gly Val Leu Thr Gly
 145 150 155 160
 Val Gly Gly Gly Ile Ile Arg Asp Ile Leu Ala Arg Glu Val Pro Met
 165 170 175
 Ile Leu Arg Thr Glu Ile Tyr Ala Thr Ala Cys Ile Ile Gly Gly Ile
 180 185 190
 Val His Ala Thr Ala Tyr Tyr Thr Phe Ala Val Pro Leu Glu Asn Ala
 195 200 205
 Ala Met Leu Gly Met Val Val Thr Leu Val Ile Arg Leu Ala Ala Ile
 210 215 220
 Arg Trp His Leu Lys Leu Pro Thr Phe Ala Leu Asp Glu Asn Ser Arg
 225 230 235 240

<210> 8339

<211> 277
 <212> PRT
 <213> Enterobacter cloacae

<400> 8339

Tyr	Cys	Arg	Lys	Asn	Arg	His	Arg	Trp	Thr	Asp	Tyr	Met	Ala	Ile	Ser
1				5					10					15	
Ile	Lys	Thr	Pro	Glu	Glu	Ile	Glu	Lys	Met	Arg	Val	Ala	Gly	Arg	Leu
			20					25					30		
Ala	Ala	Asp	Val	Leu	Glu	Met	Ile	Glu	Pro	Phe	Val	Lys	Pro	Gly	Val
		35					40					45			
Ser	Thr	Gly	Glu	Leu	Asp	Arg	Ile	Cys	Asn	Asp	Tyr	Ile	Val	Asn	Glu
	50					55				60					
Gln	His	Ala	Ile	Ser	Ala	Cys	Leu	Gly	Tyr	His	Gly	Phe	Pro	Lys	Ser
65					70					75					80
Val	Cys	Ile	Ser	Ile	Asn	Glu	Val	Val	Cys	His	Gly	Ile	Pro	Asp	Asp
				85				90						95	
Glu	Lys	Leu	Leu	Lys	Asp	Gly	Asp	Ile	Val	Asn	Ile	Asp	Val	Thr	Val
			100					105					110		
Ile	Lys	Asp	Asp	Tyr	His	Gly	Asp	Thr	Ser	Lys	Met	Phe	Ile	Val	Gly
		115					120					125			
Lys	Pro	Thr	Ile	Leu	Gly	Glu	Arg	Leu	Cys	Lys	Val	Thr	Gln	Glu	Ser
		130				135					140				
Leu	Tyr	Leu	Ala	Leu	Lys	Met	Val	Lys	Pro	Gly	Ile	Arg	Leu	Arg	Thr
145					150					155					160
Ile	Gly	Ala	Ala	Ile	Gln	Lys	Phe	Val	Glu	Ala	Glu	Gly	Phe	Ser	Val
				165					170					175	
Val	Arg	Glu	Tyr	Cys	Gly	His	Gly	Ile	Gly	Arg	Val	Phe	His	Glu	Glu
			180					185					190		
Pro	Gln	Val	Leu	His	Tyr	Asp	Ala	Asp	Asp	Gly	Gly	Val	Val	Leu	Gln
		195					200					205			
Lys	Gly	Met	Thr	Phe	Thr	Ile	Glu	Pro	Met	Val	Asn	Ala	Gly	Asp	Tyr
		210				215					220				
Arg	Ile	Arg	Thr	Met	Lys	Asp	Gly	Trp	Thr	Val	Lys	Thr	Lys	Asp	Arg
225					230					235					240
Ser	Leu	Ser	Ala	Gln	Tyr	Glu	His	Thr	Ile	Val	Val	Thr	Asp	Asn	Gly
				245					250					255	
Cys	Glu	Ile	Met	Thr	Leu	Arg	Lys	Asp	Asp	Thr	Ile	Pro	Ala	Ile	Leu
			260					265					270		
Thr	Asn	Ile	Glu												
			275												

<210> 8340
 <211> 280
 <212> PRT
 <213> Enterobacter cloacae

<400> 8340

Trp	Trp	Lys	Pro	Trp	Cys	Arg	Asn	Trp	Arg	Val	Gly	Lys	Val	Ser	Phe
1				5					10					15	
Arg	Ala	Leu	Val	Ala	Leu	Leu	Leu	Phe	Ala	Pro	Ala	Trp	Leu	Ile	Ala
			20					25					30		
Ala	Pro	Arg	Val	Ile	Thr	Leu	Ser	Pro	Ala	Asn	Thr	Glu	Leu	Ala	Phe
		35					40					45			
Ala	Ala	Gly	Ile	Thr	Pro	Val	Ala	Val	Ser	Ser	Phe	Ser	Asp	Tyr	Pro
	50					55				60					
Pro	Gln	Ala	Ala	Gln	Ile	Glu	Gln	Val	Ala	Thr	Trp	Gln	Gly	Met	Asn
65					70					75					80
Leu	Glu	Arg	Ile	Val	Ala	Leu	Lys	Pro	Asp	Leu	Val	Leu	Ala	Trp	Arg
				85					90					95	
Gly	Gly	Asn	Ala	Glu	Arg	Gln	Val	Asn	Gln	Leu	Ser	Ser	Leu	Gly	Ile


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<210> 8341
<211> 120
<212> PRT
<213> Enterobacter cloacae
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```
<210> 8342
<211> 515
<212> PRT
<213> Enterobacter cloacae
```

<400> 8342																
Gly	Glu	Thr	His	Ser	His	Ala	Gly	Glu	His	Met	Ala	Pro	Ile	Asp	Phe	
1				5					10					15		
Arg	Thr	Lys	Ile	Asn	Trp	His	Arg	Arg	Phe	Arg	Ser	Pro	Gln	Gly	Asp	
			20					25					30			
Lys	Ser	Glu	His	Glu	Ile	Leu	Arg	Ile	Phe	Glu	Ser	Asp	Arg	Gly	Arg	
		35					40					45				
Ile	Ile	Asn	Ser	Pro	Ala	Ile	Arg	Arg	Leu	Gln	Gln	Lys	Thr	Gln	Val	
	50					55					60					

Phe Pro Leu Glu Arg Asn Ala Ala Val Arg Thr Arg Leu Thr His Ser
 65 70 75 80
 Met Glu Val Gln Gln Val Gly Arg Tyr Ile Ala Lys Glu Ile Leu Ser
 85 90 95
 Arg Leu Lys Glu Gln Arg Leu Leu Glu Thr Tyr Gly Leu Asp Glu Leu
 100 105 110
 Thr Gly Pro Phe Glu Ser Ile Val Glu Met Ala Cys Leu Met His Asp
 115 120 125
 Ile Gly Asn Pro Pro Phe Gly His Phe Gly Glu Ala Ala Ile Asn Asp
 130 135 140
 Trp Phe Lys Gln Arg Leu Phe Pro Ser Asp Ala Ile Ser Gln Pro Leu
 145 150 155 160
 Ser Asp Asp Arg Cys Val Val Arg Asp Leu Ser Leu Arg Glu Gly Glu
 165 170 175
 Asp Ser Leu Asn Asp Leu Arg Arg Lys Val Arg Gln Asp Leu Cys His
 180 185 190
 Phe Glu Gly Asn Ala Gln Gly Ile Arg Leu Val His Ser Leu Met Arg
 195 200 205
 Met Asn Leu Thr Trp Ala Gln Val Gly Cys Ile Leu Lys Tyr Thr Arg
 210 215 220
 Pro Ala Trp Trp Thr Gly Glu Thr Pro Ala Thr His Ser Tyr Leu Met
 225 230 235 240
 Lys Lys Pro Gly Tyr Tyr Leu Ser Glu Glu Ala Tyr Ile Ala Arg Leu
 245 250 255
 Arg Lys Glu Leu Ser Leu Thr Pro Asn Gly Arg Phe Pro Leu Thr Trp
 260 265 270
 Ile Met Glu Ala Ala Asp Asp Ile Ser Tyr Cys Val Ala Asp Leu Glu
 275 280 285
 Asp Ala Val Glu Lys Arg Ile Phe Ser Val Glu Glu Leu Tyr Gln His
 290 295 300
 Leu His Asp Ala Trp Gly Glu His Glu Lys Gly Ser Leu Phe Ala Gln
 305 310 315 320
 Val Val Glu Asn Ala Trp Asp Lys Ser Arg Ser Asn Ser Leu Ser Arg
 325 330 335
 Ser Thr Glu Asp Gln Phe Phe Met Tyr Leu Arg Val Asn Thr Leu Asn
 340 345 350
 Lys Leu Val Pro Tyr Ala Ala Ala Arg Phe Ile Asp Asn Leu Pro Met
 355 360 365
 Ile Phe Ser Gly Glu Phe Asn His Ala Leu Leu Glu Asp Glu Ser Ser
 370 375 380
 Phe Ser Gln Leu Leu Glu Leu Tyr Lys Asn Val Ala Val Arg His Val
 385 390 395 400
 Phe Ser His Pro Asp Val Glu Gln Leu Glu Leu Gln Gly Tyr Arg Val
 405 410 415
 Ile Ser Gly Leu Leu Glu Ile Tyr Gly Pro Leu Leu Gln Leu Thr Val
 420 425 430
 Asp Glu Phe Cys Glu Leu Val Glu Asn Glu Arg Val Arg Arg Leu Pro
 435 440 445
 Ile Glu Ser Arg Leu Tyr Gln Lys Leu Ser Thr Arg His Arg Leu Ala
 450 455 460
 Tyr Ile Glu Ala Val Ser Lys Ile Asp Arg His Ser Ser Gln Trp Pro
 465 470 475 480
 Val Met Glu Tyr Tyr Tyr Arg Cys Arg Leu Ile Gln Asp Tyr Ile Ser
 485 490 495
 Gly Met Thr Asp Leu Tyr Ala Trp Asp Glu Tyr Arg Lys Leu Met Ala
 500 505 510
 Val Glu
 515

<210> 8343

<211> 497

<212> PRT

<213> Enterobacter cloacae

<400> 8343

Asn	Glu	Ser	Glu	Leu	His	Ser	Asn	Phe	Ala	Leu	Ser	Gly	Lys	Ser	Arg
1				5					10					15	
Leu	Arg	Asn	Met	Lys	Lys	Thr	Thr	Leu	Ala	Met	Ser	Ala	Leu	Ala	Leu
			20					25					30		
Ser	Leu	Gly	Leu	Ala	Leu	Ser	Pro	Leu	Ala	Thr	Ala	Ala	Glu	Thr	Ala
			35				40					45			
Ser	Ser	Ala	Ala	Thr	Ala	Gln	Gln	Met	Pro	Ser	Leu	Ala	Pro	Met	Leu
			50			55					60				
Glu	Lys	Val	Met	Pro	Ser	Val	Val	Ser	Ile	Asn	Val	Glu	Gly	Ser	Thr
65					70					75				80	
Thr	Val	Asn	Thr	Pro	Arg	Met	Pro	Arg	Asn	Phe	Gln	Gln	Phe	Phe	Gly
				85					90					95	
Asp	Asn	Ser	Pro	Phe	Cys	Gln	Asp	Gly	Ser	Pro	Phe	Gln	Ser	Ser	Pro
			100					105					110		
Phe	Cys	Gln	Gly	Gly	Gly	Ala	Gly	Asp	Asp	Gly	Met	Gly	Gly	Gly	Gln
			115				120					125			
Gln	Gln	Lys	Phe	Met	Ala	Leu	Gly	Ser	Gly	Val	Ile	Ile	Asp	Ala	Ala
			130			135					140				
Lys	Gly	Tyr	Val	Val	Thr	Asn	Asn	His	Val	Val	Asp	Asn	Ala	Asn	Thr
145					150					155				160	
Ile	Lys	Val	Gln	Met	Ser	Asp	Gly	Arg	Lys	Phe	Asp	Ala	Lys	Val	Val
				165					170					175	
Gly	Lys	Asp	Pro	Arg	Ser	Asp	Ile	Ala	Leu	Ile	Gln	Ile	Gln	Asp	Pro
			180					185					190		
Lys	Asn	Leu	Thr	Ala	Ile	Lys	Leu	Ala	Asp	Ser	Asp	Ala	Leu	Arg	Val
			195				200					205			
Gly	Asp	Tyr	Thr	Val	Ala	Ile	Gly	Asn	Pro	Phe	Gly	Leu	Gly	Glu	Thr
			210			215					220				
Val	Thr	Ser	Gly	Ile	Val	Ser	Ala	Leu	Gly	Arg	Ile	Gly	Leu	Asn	Ala
225					230					235				240	
Glu	Asn	Tyr	Glu	Asn	Phe	Ile	Gln	Thr	Asp	Ala	Ala	Ile	Asn	Arg	Gly
				245					250					255	
Asn	Ser	Gly	Gly	Ala	Leu	Val	Asn	Leu	Asn	Gly	Glu	Leu	Ile	Gly	Ile
			260					265					270		
Asn	Thr	Ala	Ile	Leu	Ala	Pro	Asp	Gly	Gly	Asn	Ile	Gly	Ile	Gly	Phe
			275				280					285			
Ala	Ile	Pro	Ser	Asn	Met	Val	Lys	Asn	Leu	Thr	Ala	Gln	Met	Val	Gln
			290			295					300				
Tyr	Gly	Gln	Val	Lys	Arg	Gly	Glu	Leu	Gly	Ile	Met	Gly	Thr	Glu	Leu
305					310					315				320	
Asn	Ser	Glu	Leu	Ala	Lys	Ala	Met	Lys	Val	Asp	Ala	Gln	Arg	Gly	Ala
				325					330					335	
Phe	Val	Ser	Gln	Val	Met	Pro	Asn	Ser	Ser	Ala	Ala	Lys	Ala	Gly	Ile
			340					345					350		
Lys	Ala	Gly	Asp	Val	Ile	Thr	Ser	Leu	Asn	Gly	Lys	Pro	Ile	Ser	Ser
			355				360					365			
Phe	Ala	Ala	Leu	Arg	Ala	Glu	Val	Gly	Ser	Met	Pro	Ile	Gly	Ser	Lys
			370			375					380				
Val	Thr	Leu	Gly	Leu	Leu	Arg	Glu	Gly	Lys	Pro	Val	Asn	Val	Ser	Leu
385					390					395				400	
Glu	Leu	Gln	Gln	Ser	Ser	Gln	Asn	Gln	Val	Asp	Ser	Ser	Thr	Ile	Phe
				405					410					415	
Ser	Gly	Ile	Glu	Gly	Ala	Glu	Met	Ser	Asn	Lys	Gly	Ala	Asp	Lys	Gly
			420					425					430		
Val	Val	Val	Asn	Asn	Val	Lys	Ala	Asn	Ser	Pro	Ala	Ala	Arg	Ile	Gly
			435				440					445			
Leu	Lys	Lys	Gly	Asp	Val	Ile	Met	Gly	Ala	Asn	Gln	Gln	Pro	Val	Lys

450		455		460	
Asn Ile Ala Glu Leu Arg	Lys Ile Leu Asp Ser	Lys Pro Ser Val Leu			
465	470	475		480	
Ala Leu Asn Ile Gln Arg	Gly Asp Thr Ser Ile	Tyr Leu Leu Met Gln			
	485	490		495	

<210> 8344
 <211> 216
 <212> PRT
 <213> Entérobacter cloacae

<400> 8344

Gln Ser Gln Glu Arg Asn Met Ala Thr Asn Ala Lys Pro Val Tyr Lys	
1 5 10 15	
Arg Ile Leu Leu Lys Leu Ser Gly Glu Ala Leu Gln Gly Ser Glu Gly	
20 25 30	
Phe Gly Ile Asp Ala Ser Ile Leu Asp Arg Met Ala Gln Glu Ile Lys	
35 40 45	
Glu Leu Val Glu Leu Gly Ile Gln Val Gly Val Val Ile Gly Gly Gly	
50 55 60	
Asn Leu Phe Arg Gly Ala Gly Leu Ala Lys Ala Gly Met Asn Arg Val	
65 70 75 80	
Val Gly Asp His Met Gly Met Leu Ala Thr Val Met Asn Gly Leu Ala	
85 90 95	
Met Arg Asp Ala Leu His Arg Ala Tyr Val Asn Ala Arg Leu Met Ser	
100 105 110	
Ala Asn Pro Leu Asn Gly Val Cys Asp Asn Tyr Ser Trp Ala Glu Ala	
115 120 125	
Ile Ser Leu Leu Arg Asn Asn Arg Val Val Ile Leu Ser Ala Gly Thr	
130 135 140	
Gly Asn Pro Phe Phe Thr Thr Asp Ser Ala Ala Cys Leu Ala Arg Tyr	
145 150 155 160	
Arg Asn Arg Ser Arg Cys Gly Ala Glu Ser Asp Gln Ser Arg Trp Arg	
165 170 175	
Val Tyr Cys Arg Pro Gly Lys Arg Ser Phe Ser Asp His Val Arg Ser	
180 185 190	
Ala Glu Leu Gln Arg Ser Ala Gly Lys Arg Ala Lys Ser Asp Gly Ser	
195 200 205	
Cys Arg Leu Tyr Ala Gly Ser	
210 215	

<210> 8345
 <211> 194
 <212> PRT
 <213> Enterobacter cloacae

<400> 8345

Asp Lys Phe Ser Arg Ile Arg Asn Val Ile Asn Asp Ile Arg Lys Asp	
1 5 10 15	
Ala Glu Val Arg Met Asp Lys Cys Val Glu Ala Phe Lys Asn Gln Ile	
20 25 30	
Ser Lys Ile Arg Thr Gly Arg Ala Ser Pro Ser Leu Leu Asp Gly Ile	
35 40 45	
Ile Val Glu Tyr Tyr Gly Thr Pro Thr Pro Leu Arg Gln Leu Ala Ser	
50 55 60	
Val Thr Val Glu Asp Thr Arg Thr Leu Lys Ile Asn Val Phe Asp Arg	
65 70 75 80	
Ser Met Ser Pro Ala Val Glu Lys Ala Ile Met Ala Ser Asp Leu Gly	
85 90 95	

Leu Asn Pro Ser Ser Ala Gly Ala Asp Ile Arg Val Pro Leu Pro Pro
 100 105 110
 Leu Thr Glu Arg Arg Lys Asp Leu Ile Lys Val Val Arg Gly Glu
 115 120 125
 Ala Glu Gln Gly Arg Val Ser Val Arg Asn Val Arg Arg Asp Ala Asn
 130 135 140
 Asp Lys Val Lys Ala Leu Leu Lys Glu Lys Glu Ile Ser Glu Asp Asp
 145 150 155 160
 Asp Arg Arg Ser Gln Asp Asp Ile Gln Lys Met Thr Asp Ala Ala Ile
 165 170 175
 Lys Lys Ile Asp Ala Ala Leu Ala Glu Lys Glu Ala Glu Leu Met Gln
 180 185 190
 Phe

<210> 8346

<211> 476

<212> PRT

<213> Enterobacter cloacae

<400> 8346

Gln Pro Tyr Arg Gly Cys Ser Cys Ile Cys Leu Pro Ala Phe Thr Gly
 1 5 10 15
 Val Trp Asp Asp Ile Thr Glu Gly Phe Met Leu Ser Ile Leu Trp Asn
 20 25 30
 Leu Ala Ala Phe Ile Val Ala Leu Gly Val Leu Ile Thr Val His Glu
 35 40 45
 Phe Gly His Phe Trp Val Ala Arg Arg Cys Gly Val Arg Val Glu Arg
 50 55 60
 Phe Ser Ile Gly Phe Gly Lys Ser Leu Trp Lys Arg Thr Asp Lys His
 65 70 75 80
 Gly Thr Glu Phe Val Ile Ala Leu Ile Pro Leu Gly Gly Tyr Val Lys
 85 90 95
 Met Leu Asp Glu Arg Val Glu Pro Val Ala Pro Glu Leu Arg His Arg
 100 105 110
 Ala Phe Asn Asn Lys Thr Val Gly Gln Arg Ala Ala Ile Ile Ala Ala
 115 120 125
 Gly Pro Val Ala Asn Phe Ile Phe Ala Ile Phe Ala Tyr Trp Leu Val
 130 135 140
 Phe Ile Ile Gly Val Pro Gly Val Arg Pro Val Val Gly Glu Ile Thr
 145 150 155 160
 Thr Gly Ser Ile Ala Ala Thr Ala Gln Ile Thr Pro Gly Met Glu Leu
 165 170 175
 Lys Ala Ile Asp Gly Ile Glu Thr Pro Asp Trp Asp Ala Val Arg Leu
 180 185 190
 Gln Leu Val Ala Lys Ile Gly Asp Glu Gln Thr Thr Val Ser Val Ser
 195 200 205
 Pro Phe Gly Ser Asp Gln Arg Gln Glu Lys Val Leu Asp Leu Arg His
 210 215 220
 Trp Arg Phe Glu Pro Asp Lys Glu Asp Pro Val Ala Ala Leu Gly Ile
 225 230 235 240
 Arg Pro Arg Gly Ala Gln Ile Glu Pro Val Leu Ala Glu Val Gln Ala
 245 250 255
 Lys Ser Ala Ala Ser Lys Ala Gly Leu Gln Ala Gly Asp Arg Ile Val
 260 265 270
 Lys Val Asp Gly Gln Pro Leu Thr Gln Trp Met Thr Phe Val Thr Leu
 275 280 285
 Val Arg Asp Asn Pro Gly Lys Pro Leu Ala Leu Glu Val Glu Arg Gln
 290 295 300
 Gly Ser Ser Leu Ser Leu Thr Leu Thr Pro Asp Thr Lys Ser Gly Gly
 305 310 315 320

Gly Lys Ala Glu Gly Phe Ala Gly Val Val Pro Lys Val Ile Pro Leu
 325 330 335
 Pro Asp Glu Tyr Lys Thr Ile Arg Gln Tyr Gly Pro Phe Ser Ala Ile
 340 345 350
 Val Glu Ala Thr Asp Lys Thr Trp Gln Leu Met Lys Leu Thr Val Asn
 355 360 365
 Met Leu Gly Lys Leu Ile Thr Gly Asp Val Lys Leu Asn Asn Leu Ser
 370 375 380
 Gly Pro Ile Ser Ile Ala Gln Gly Ala Gly Met Ser Ala Glu Phe Gly
 385 390 395 400
 Val Ile Tyr Tyr Leu Met Phe Leu Ala Leu Ile Ser Val Asn Leu Gly
 405 410 415
 Ile Ile Asn Leu Phe Pro Leu Pro Val Leu Asp Gly Gly His Leu Leu
 420 425 430
 Phe Leu Ala Ile Glu Lys Leu Lys Gly Gly Pro Val Ser Glu Arg Val
 435 440 445
 Gln Asp Phe Ser Tyr Arg Ile Gly Ser Ile Leu Leu Val Leu Leu Met
 450 455 460
 Gly Leu Ala Leu Phe Asn Asp Phe Ser Arg Leu
 465 470 475

<210> 8347

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 8347

Ala Gln Asn Arg Ser Thr Arg Leu Ser Val His Pro Phe Asn Ala Lys
 1 5 10 15
 Phe Pro Gly Leu Ser Ala Leu Phe Ile Asn Arg Gln Ala Val Leu Leu
 20 25 30
 Leu Leu Leu Ser Thr Phe Asp Arg Lys Ser Ile Leu Thr Thr Tyr Thr
 35 40 45
 His Thr Leu His Ile Glu Glu Ile Leu Glu Leu Leu Pro His Arg Tyr
 50 55 60
 Pro Phe Leu Leu Val Asp Arg Val Leu Asp Phe Glu Glu Gly Arg Phe
 65 70 75 80
 Leu Arg Ala Val Lys Asn Val Ser Val Asn Glu Pro Phe Phe Gln Gly
 85 90 95
 His Phe Pro Gly Lys Pro Ile Phe Pro Gly Val Leu Ile Leu Glu Ala
 100 105 110
 Met Ala Gln Ala Thr Gly Ile Leu Ala Phe Lys Ser Val Gly Lys Leu
 115 120 125
 Glu Pro Gly Glu Leu Tyr Tyr Phe Ala Gly Ile Asp Glu Ala Arg Phe
 130 135 140
 Lys Arg Pro Val Val Pro Gly Asp Gln Met Ile Met Glu Val Thr Phe
 145 150 155 160
 Glu Lys Thr Arg Arg Gly Leu Thr Arg Phe Lys Gly Val Ala Met Val
 165 170 175
 Asp Gly Lys Val Val Cys Glu Ala Thr Met Met Cys Ala Arg Ser Arg
 180 185 190
 Glu Ala
 195

<210> 8348

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 8348

Tyr Val Ile Asp Lys Ser Ala Phe Ile His Pro Thr Ala Ile Val Glu

1				5					10				15
Thr	Gly	Ala	Ile	Ile	Gly	Ala	Asn	Val	His	Ile	Gly	Pro	Phe
			20					25					30
Val	Gly	Pro	His	Val	Glu	Ile	Gly	Glu	Gly	Thr	Val	Leu	Lys
		35					40					45	Ser
Val	Val	Val	Asn	Gly	His	Thr	Thr	Ile	Gly	Cys	Asn	Asn	Glu
	50					55					60		Ile
Gln	Phe	Ala	Ser	Ile	Gly	Glu	Val	Asn	Gln	Asp	Leu	Lys	Tyr
65					70					75			80
Glu	Pro	Thr	Arg	Val	Glu	Ile	Gly	Asp	Arg	Asn	Arg	Ile	Arg
			85					90					95
Val	Thr	Ile	His	Arg	Gly	Thr	Thr	Gln	Gly	Gly	Gly	Leu	Thr
			100					105					110
Gly	Ser	Asp	Asn	Leu	Phe	Met	Val	Asn	Ala	His	Ile	Ala	His
		115					120					125	Asp
Thr	Val	Gly	Ser	Arg	Cys	Ile	Leu	Ala	Asn	Asn	Ala	Thr	Leu
	130					135					140		Ala
His	Val	Ser	Val	Asp	Asp	Phe	Ala	Ile	Ile	Gly	Gly	Met	Thr
145				150						155			160
His	Gln	Phe	Cys	Ile	Ile	Gly	Ala	His	Val	Met	Val	Gly	Gly
			165					170					175
Gly	Val	Ala	Gln	Asp	Val	Pro	Pro	Phe	Val	Ile	Ala	Gln	Gly
			180					185					190
Ala	Thr	Pro	Phe	Gly	Val	Asn	Ile	Glu	Gly	Leu	Lys	Arg	Arg
	195					200						205	Gly
Ser	Arg	Glu	Ala	Ile	Thr	Ala	Ile	Arg	Asn	Ala	Tyr	Lys	Leu
	210					215					220		Leu
Arg	Ser	Gly	Lys	Thr	Leu	Glu	Glu	Ala	Lys	Pro	Glu	Ile	Ala
225					230					235			Glu
Ala	Asn	Lys	His	Pro	Glu	Val	Lys	Thr	Phe	Met	Glu	Phe	Phe
			245						250				255
Ser	Thr	Arg	Gly	Leu	Ile	Arg							
			260										

<210> 8349

<211> 1167

<212> PRT

<213> Enterobacter cloacae

<400> 8349

Val	Thr	Arg	Asp	Leu	Lys	Met	Ala	Glu	Pro	Arg	Phe	Val	His	Leu	Arg
1				5					10					15	
Val	His	Ser	Asp	Tyr	Ser	Met	Ile	Asp	Gly	Leu	Ala	Lys	Thr	Gly	Pro
			20					25					30		
Leu	Val	Lys	Lys	Ala	Ala	Ser	Leu	Gly	Met	Pro	Ala	Leu	Ala	Ile	Thr
		35					40					45			
Asp	Phe	Thr	Asn	Leu	Cys	Gly	Leu	Val	Lys	Phe	Tyr	Gly	Thr	Ala	His
	50					55				60					
Gly	Ala	Gly	Leu	Lys	Pro	Ile	Val	Gly	Ala	Asp	Phe	His	Val	Gln	Ser
65					70					75					80
Asp	Leu	Leu	Gly	Asp	Glu	Met	Thr	Gln	Ile	Ser	Val	Leu	Ala	Met	Asn
			85					90						95	
Asn	Thr	Gly	Tyr	Gln	Asn	Leu	Thr	Leu	Leu	Ile	Ser	Lys	Ala	Tyr	Gln
			100					105						110	
Arg	Gly	Tyr	Gly	Ala	Leu	Gly	Pro	Trp	Ile	Asp	Arg	Asp	Trp	Leu	Ala
	115						120					125			
Glu	Leu	Asn	Glu	Gly	Leu	Leu	Ile	Ser	Gly	Gly	Arg	Met	Gly	Asp	
	130					135				140					
Val	Gly	Lys	Cys	Leu	Leu	Arg	Gly	Asn	Asn	Ala	Leu	Val	Asp	Gln	Cys
145					150					155					160
Val	Ser	Phe	Tyr	Glu	Glu	Tyr	Phe	Pro	Asp	Arg	Tyr	Tyr	Leu	Glu	Leu

Phe	Ile	Asp	Arg	Lys	His	Gly	Arg	Glu	Glu	Ile	Ser	Tyr	Pro	Asp	Val
			660					665					670		
Gln	Trp	Gln	His	Glu	Ser	Leu	Lys	Pro	Val	Leu	Glu	Pro	Thr	Tyr	Gly
		675					680					685			
Ile	Ile	Leu	Tyr	Gln	Glu	Gln	Val	Met	Gln	Ile	Ala	Gln	Val	Leu	Ser
	690					695					700				
Gly	Tyr	Thr	Leu	Gly	Gly	Ala	Asp	Met	Leu	Arg	Arg	Ala	Met	Gly	Lys
705				710						715					720
Lys	Lys	Pro	Glu	Glu	Met	Ala	Lys	Gln	Arg	Ser	Ile	Phe	Glu	Asp	Gly
			725						730					735	
Ala	Lys	Lys	Asn	Gly	Ile	Asp	Gly	Glu	Leu	Ala	Met	Lys	Ile	Phe	Asp
			740					745					750		
Leu	Val	Glu	Lys	Phe	Ala	Gly	Tyr	Gly	Phe	Asn	Lys	Ser	His	Ser	Ala
		755					760					765			
Ala	Tyr	Ala	Leu	Val	Ser	Tyr	Gln	Thr	Leu	Trp	Leu	Lys	Ala	His	Tyr
	770					775					780				
Pro	Ala	Glu	Phe	Met	Ala	Ala	Val	Met	Thr	Ala	Asp	Met	Asp	Asn	Thr
785					790					795					800
Glu	Lys	Val	Val	Gly	Leu	Val	Asp	Glu	Cys	Trp	Arg	Met	Gly	Leu	Lys
				805					810					815	
Ile	Leu	Pro	Pro	Asp	Ile	Asn	Ser	Gly	Leu	Tyr	His	Phe	His	Val	Asn
			820					825					830		
Asp	Asp	Gly	Glu	Ile	Val	Tyr	Gly	Ile	Gly	Ala	Ile	Lys	Gly	Val	Gly
		835					840					845			
Glu	Gly	Pro	Ile	Glu	Ala	Ile	Ile	Glu	Ala	Arg	Asn	Asn	Gly	Gly	Tyr
	850					855					860				
Phe	Arg	Glu	Leu	Phe	Asp	Leu	Cys	Ala	Arg	Thr	Asp	Thr	Lys	Lys	Leu
865					870					875					880
Asn	Arg	Arg	Val	Leu	Glu	Lys	Leu	Ile	Met	Ser	Gly	Ala	Phe	Asp	Arg
				885					890					895	
Leu	Gly	Pro	His	Arg	Ala	Ala	Leu	Met	Asn	Ser	Leu	Gly	Asp	Ala	Leu
			900					905					910		
Lys	Ala	Ala	Asp	Gln	His	Ala	Lys	Ala	Glu	Ala	Ile	Gly	Gln	Ala	Asp
		915					920					925			
Met	Phe	Gly	Val	Leu	Ala	Glu	Glu	Pro	Glu	Gln	Ile	Glu	Gln	Ser	Tyr
	930					935					940				
Ser	Asn	Cys	Gln	Pro	Trp	Pro	Glu	Gln	Val	Val	Leu	Asp	Gly	Glu	Arg
945				950					955						960
Glu	Thr	Leu	Gly	Leu	Tyr	Leu	Thr	Gly	His	Pro	Ile	Asn	Gln	Tyr	Leu
				965					970					975	
Lys	Glu	Ile	Glu	Arg	Tyr	Val	Gly	Gly	His	Arg	Leu	Lys	Asp	Met	His
			980				985						990		
Pro	Thr	Glu	Arg	Gly	Lys	Ile	Thr	Thr	Ala	Ala	Gly	Leu	Val	Ile	Ala
		995					1000					1005			
Ala	Arg	Val	Met	Val	Thr	Lys	Arg	Gly	Asn	Arg	Ile	Gly	Ile	Cys	Thr
	1010					1015					1020				
Leu	Asp	Asp	Arg	Ser	Gly	Arg	Leu	Glu	Val	Met	Leu	Phe	Thr	Asp	Ala
1025				1030						1035					1040
Leu	Asp	Lys	Tyr	Gln	Gln	Leu	Leu	Glu	Lys	Asp	Arg	Ile	Leu	Ile	Val
				1045					1050					1055	
Ser	Gly	Gln	Val	Ser	Phe	Asp	Asp	Phe	Ser	Gly	Gly	Leu	Lys	Met	Thr
			1060					1065					1070		
Ala	Arg	Glu	Val	Met	Asp	Ile	Asp	Glu	Ala	Arg	Glu	Lys	Tyr	Ala	Arg
		1075					1080					1085			
Gly	Leu	Ala	Ile	Ser	Leu	Thr	Asp	Arg	Gln	Ile	Asp	Asp	Gln	Leu	Leu
	1090					1095					1100				
Asn	Arg	Leu	Arg	Gln	Ser	Leu	Glu	Pro	His	Arg	Ser	Gly	Thr	Ile	Pro
1105				1110						1115					1120
Val	His	Leu	Tyr	Tyr	Gln	Arg	Ala	Asp	Ala	Arg	Ala	Arg	Leu	Arg	Phe
				1125					1130					1135	
Gly	Ala	Thr	Trp	Arg	Val	Ser	Pro	Ser	Asp	Arg	Leu	Leu	Asn	Asp	Leu

	1140		1145		1150								
Arg	Gly	Leu	Ile	Gly	Ser	Glu	Gln	Val	Glu	Leu	Glu	Phe	Asp
	1155						1160						1165

<210> 8350
 <211> 324
 <212> PRT
 <213> Enterobacter cloacae

<400> 8350

Tyr	Arg	Asn	Thr	Met	Ser	Leu	Asn	Phe	Leu	Asp	Phe	Glu	Gln	Pro	Ile
1			5						10					15	
Ala	Glu	Leu	Glu	Ala	Lys	Ile	Asp	Ser	Leu	Thr	Ala	Val	Ser	Arg	Gln
			20					25					30		
Asp	Glu	Lys	Leu	Asp	Ile	Asn	Ile	Asp	Glu	Glu	Val	His	Arg	Leu	Arg
		35					40					45			
Glu	Lys	Ser	Val	Glu	Leu	Thr	Arg	Lys	Ile	Phe	Ala	Asp	Leu	Gly	Ala
	50					55					60				
Trp	Gln	Ile	Ala	Gln	Leu	Ala	Arg	His	Pro	Gln	Arg	Pro	Tyr	Thr	Leu
65					70					75					80
Asp	Tyr	Val	Arg	Leu	Ala	Phe	Asp	Glu	Phe	Asp	Glu	Leu	Ala	Gly	Asp
				85					90					95	
Arg	Ala	Tyr	Ala	Asp	Asp	Lys	Ala	Ile	Val	Gly	Gly	Ile	Ala	Arg	Leu
			100					105					110		
Asp	Gly	Arg	Pro	Val	Met	Ile	Ile	Gly	His	Gln	Lys	Gly	Arg	Glu	Thr
		115					120					125			
Lys	Glu	Lys	Ile	Arg	Arg	Asn	Phe	Gly	Met	Pro	Ala	Pro	Glu	Gly	Tyr
	130					135					140				
Arg	Lys	Ala	Leu	Arg	Leu	Met	Glu	Met	Ala	Glu	Arg	Phe	Asn	Met	Pro
145					150					155					160
Ile	Ile	Thr	Phe	Ile	Asp	Thr	Pro	Gly	Ala	Tyr	Pro	Gly	Val	Gly	Ala
				165					170					175	
Glu	Glu	Arg	Gly	Gln	Ser	Glu	Ala	Ile	Ala	Arg	Asn	Leu	Arg	Glu	Met
			180					185				190			
Ser	Arg	Leu	Lys	Val	Pro	Val	Ile	Cys	Thr	Val	Ile	Gly	Glu	Gly	Gly
		195					200					205			
Ser	Gly	Gly	Ala	Leu	Ala	Ile	Gly	Val	Gly	Asp	Lys	Val	Asn	Met	Leu
	210					215					220				
Gln	Tyr	Ser	Thr	Tyr	Ser	Val	Ile	Ser	Pro	Glu	Gly	Cys	Ala	Ser	Ile
225					230					235					240
Leu	Trp	Lys	Ser	Ala	Asp	Lys	Ala	Pro	Leu	Ala	Ala	Glu	Ala	Met	Gly
				245					250					255	
Ile	Ile	Ala	Pro	Arg	Leu	Lys	Glu	Leu	Lys	Leu	Ile	Asp	Thr	Val	Ile
			260					265					270		
Pro	Glu	Pro	Leu	Gly	Gly	Ala	His	Arg	Lys	Pro	Glu	Val	Met	Ala	Ala
		275					280					285			
Ser	Leu	Lys	Ala	Gln	Leu	Leu	Ala	Asp	Leu	Ala	Asp	Leu	Asp	Val	Leu
	290					295					300				
Ser	Thr	Glu	Asp	Leu	Leu	Asn	Arg	Arg	Tyr	Gln	Arg	Leu	Met	Thr	Tyr
305					310					315					320
Gly	Tyr	Ala													

<210> 8351
 <211> 124
 <212> PRT
 <213> Enterobacter cloacae

<400> 8351

Gln	Ser	Gln	Tyr	Ser	Trp	Glu	His	Lys	Met	Ser	Asp	Asp	Val	Ala	Leu
1				5					10					15	

Pro Leu Glu Phe Thr Glu Ala Ala Ala Lys Lys Val Lys Thr Leu Ile
 20 25 30
 Ala Asp Glu Asp Asn Pro Asp Leu Lys Leu Arg Val Tyr Ile Thr Gly
 35 40 45
 Gly Gly Cys Ser Gly Phe Gln Tyr Gly Phe Thr Phe Asp Asp Gln Val
 50 55 60
 Asn Asp Gly Asp Met Thr Ile Glu Lys Gln Gly Val Ala Leu Val Val
 65 70 75 80
 Asp Pro Met Ser Leu Gln Tyr Leu Val Gly Gly Ser Val Asp Tyr Thr
 85 90 95
 Glu Gly Leu Glu Gly Ser Arg Phe Val Val Thr Asn Pro Asn Ala Thr
 100 105 110
 Ser Thr Cys Gly Cys Gly Ser Ser Phe Ser Ile
 115 120

<210> 8352

<211> 259

<212> PRT

<213> Enterobacter cloacae

<400> 8352

Tyr Gly Ile Arg Gly Gly Ile Thr Pro Thr Phe Asn Ile Glu Val Leu
 1 5 10 15
 Asn Met Ala Thr Val Ser Met Arg Asp Met Leu Lys Ala Gly Val His
 20 25 30
 Phe Gly His Gln Thr Arg Tyr Trp Asn Pro Lys Met Lys Pro Phe Ile
 35 40 45
 Phe Gly Ala Arg Asn Lys Val His Ile Ile Asn Leu Glu Lys Thr Val
 50 55 60
 Pro Met Phe Asn Glu Ala Leu Ala Glu Leu Asn Lys Ile Ser Ser Arg
 65 70 75 80
 Lys Gly Lys Ile Leu Phe Val Gly Thr Lys Arg Ala Ala Ser Glu Ala
 85 90 95
 Val Lys Asp Ala Ala Asn Ser Cys Asp Gln Phe Phe Val Asn His Arg
 100 105 110
 Trp Leu Gly Gly Met Leu Thr Asn Trp Lys Thr Val Arg Gln Ser Ile
 115 120 125
 Lys Arg Leu Lys Asp Leu Glu Thr Gln Ser Gln Asp Gly Thr Phe Asp
 130 135 140
 Lys Leu Thr Lys Lys Glu Ala Leu Met Arg Thr Arg Glu Leu Asp Lys
 145 150 155 160
 Leu Glu Asn Ser Leu Gly Gly Ile Lys Asp Met Gly Gly Leu Pro Asp
 165 170 175
 Ala Leu Phe Val Ile Asp Ala Asp His Glu His Ile Ala Ile Lys Glu
 180 185 190
 Ala Asn Asn Leu Gly Ile Pro Val Phe Ala Ile Val Asp Thr Asn Ser
 195 200 205
 Asp Pro Asp Gly Val Asp Phe Val Ile Pro Gly Asn Asp Asp Ala Ile
 210 215 220
 Arg Ala Val Ser Leu Tyr Leu Ser Ala Val Ala Ala Thr Val Arg Glu
 225 230 235 240
 Gly Arg Ser Gln Asp Leu Ala Ser Gln Ala Glu Glu Ser Phe Val Glu
 245 250 255
 Ala Glu

<210> 8353

<211> 312

<212> PRT

<213> Enterobacter cloacae

<400> 8353

Ile Gly Ala His Tyr Arg Pro Leu Phe Ser Ile Tyr Thr Val Trp Leu
 1 5 10 15
 Pro Ala Gly Gln Phe Thr Ser Pro Glu Asp Leu Arg Met Ala Glu Ile
 20 25 30
 Thr Ala Ser Leu Val Lys Glu Leu Arg Glu Arg Thr Gly Ala Gly Met
 35 40 45
 Met Asp Cys Lys Lys Ala Leu Thr Glu Ala Asn Gly Asp Ile Glu Leu
 50 55 60
 Ala Ile Glu Asn Met Arg Lys Ser Gly Ala Ile Lys Ala Ala Lys Lys
 65 70 75 80
 Ala Gly Asn Val Ala Ala Asp Gly Val Ile Thr Lys Ile Asp Gly
 85 90 95
 Asn Tyr Gly Ile Ile Leu Glu Val Asn Cys Gln Thr Asp Phe Val Ala
 100 105 110
 Lys Asp Ala Gly Phe Gln Ala Phe Ala Asn Lys Val Leu Asp Ala Ala
 115 120 125
 Val Ala Gly Lys Ile Thr Asp Val Glu Val Leu Lys Ala Gln Phe Glu
 130 135 140
 Glu Glu Arg Val Ala Leu Val Ala Lys Ile Gly Glu Asn Ile Asn Ile
 145 150 155 160
 Arg Arg Val Ala Ser Leu Glu Gly Asp Val Leu Gly Ser Tyr Gln His
 165 170 175
 Gly Ala Arg Ile Gly Val Leu Val Ala Ala Lys Gly Ala Asp Glu Glu
 180 185 190
 Leu Val Lys Gln Leu Ala Met His Ile Ala Ala Ser Lys Pro Glu Phe
 195 200 205
 Val Lys Pro Glu Asp Val Ser Ala Glu Val Val Glu Lys Glu Tyr Gln
 210 215 220
 Val Gln Leu Asp Ile Ala Met Gln Ser Gly Lys Pro Lys Glu Ile Ala
 225 230 235 240
 Glu Lys Met Val Glu Gly Arg Met Lys Lys Phe Thr Gly Glu Val Ser
 245 250 255
 Leu Thr Gly Gln Pro Phe Val Met Asp Pro Ser Lys Ser Val Ala Gln
 260 265 270
 Leu Leu Lys Glu His Asn Ala Asp Val Thr Gly Phe Ile Arg Phe Glu
 275 280 285
 Val Gly Glu Gly Ile Glu Lys Val Glu Thr Asp Phe Ala Ala Glu Val
 290 295 300
 Ala Ala Met Ser Lys Gln Ser
 305 310

<210> 8354

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 8354

Ser Ser Pro Pro Val Arg Val Thr Arg Ser Leu Pro Pro Ile Pro Gln
 1 5 10 15
 Pro Ala Trp Arg Gly Ile Glu Ile Glu Ala Asp Val Val Leu Lys Ala
 20 25 30
 Thr Lys Val Asp Gly Val Phe Thr Ala Asp Pro Ala Lys Asp Pro Ser
 35 40 45
 Ala Thr Met Tyr Asp Gln Leu Ser Tyr Ser Glu Val Leu Glu Lys Glu
 50 55 60
 Leu Lys Val Met Asp Leu Ala Ala Phe Thr Leu Ala Arg Asp His Lys
 65 70 75 80
 Leu Pro Ile Arg Val Phe Asn Met Asn Lys Pro Gly Ala Leu Arg Arg
 85 90 95
 Val Val Met Gly Glu Lys Glu Gly Thr Leu Ile Thr Glu

100

105

110

<210> 8355

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 8355

Lys	Arg	Val	Met	Leu	Ser	Ala	Asn	Gln	Pro	Ile	Ser	Glu	Asn	Leu	Pro
1				5					10					15	
Ala	His	Gly	Cys	Arg	His	Val	Ala	Ile	Ile	Met	Asp	Gly	Asn	Gly	Arg
		20						25					30		
Trp	Ala	Lys	Arg	Gln	Gly	Lys	Ile	Arg	Ala	Phe	Gly	His	Lys	Ala	Gly
		35					40					45			
Ala	Lys	Ser	Val	Arg	Arg	Ala	Val	Ser	Phe	Ala	Ala	Asn	Asn	Gly	Ile
	50					55					60				
Asp	Ala	Leu	Thr	Leu	Tyr	Ala	Phe	Ser	Ser	Glu	Asn	Trp	Asn	Arg	Pro
65					70					75				80	
Ala	Gln	Glu	Val	Thr	Ala	Leu	Met	Glu	Leu	Phe	Val	Trp	Ala	Leu	Asp
				85					90					95	
Ser	Glu	Val	Lys	Ser	Leu	His	Arg	His	Asn	Val	Arg	Leu	Arg	Ile	Ile
		100						105					110		
Gly	Glu	Thr	Ser	Arg	Phe	Asn	Ser	Arg	Leu	Gln	Glu	Arg	Ile	Arg	Lys
		115					120					125			
Ala	Glu	Ala	Leu	Thr	Glu	Asn	Asn	Thr	Gly	Leu	Thr	Leu	Asn	Ile	Ala
	130					135					140				
Ala	Asn	Tyr	Gly	Gly	Arg	Trp	Asp	Ile	Ile	Gln	Gly	Val	Arg	His	Leu
145					150					155				160	
Ala	Glu	Gln	Val	Gln	Glu	Gly	Leu	Leu	Arg	Pro	Asp	Gln	Ile	Asp	Glu
			165						170					175	
Glu	Ala	Leu	Ser	Gln	Gln	Ile	Cys	Met	Asn	Glu	Leu	Ala	Pro	Val	Asp
		180						185					190		
Leu	Val	Ile	Arg	Thr	Gly	Gly	Glu	His	Arg	Ile	Ser	Asn	Phe	Leu	Leu
		195					200					205			
Trp	Gln	Ile	Ala	Tyr	Ala	Glu	Leu	Tyr	Phe	Thr	Asp	Val	Leu	Trp	Pro
	210					215					220				
Asp	Phe	Asp	Glu	Gln	Asp	Phe	Glu	Gly	Ala	Leu	His	Ala	Phe	Ala	Asn
225					230					235				240	
Arg	Glu	Arg	Arg	Phe	Gly	Gly	Thr	Glu	Pro	Gly	Gly	Asp	Asn	Ala	
				245					250					255	

<210> 8356

<211> 287

<212> PRT

<213> Enterobacter cloacae

<400> 8356

Leu	Leu	Leu	Lys	Tyr	Arg	Leu	Ile	Ser	Ala	Phe	Val	Leu	Ile	Pro	Val
1				5					10					15	
Val	Ile	Ala	Ala	Leu	Phe	Leu	Leu	Pro	Pro	Val	Gly	Phe	Ala	Ile	Val
		20						25					30		
Thr	Leu	Val	Val	Cys	Met	Leu	Ala	Ala	Trp	Glu	Trp	Gly	Gln	Leu	Ser
		35					40					45			
Gly	Phe	Thr	Ser	Arg	Thr	Gln	Arg	Val	Trp	Leu	Ala	Val	Leu	Cys	Gly
	50					55					60				
Phe	Leu	Leu	Ala	Leu	Met	Leu	Tyr	Thr	Leu	Pro	Glu	Tyr	His	His	Asp
65					70					75				80	
Val	His	Gln	Pro	Leu	Val	Ala	Gly	Ser	Leu	Trp	Ile	Ser	Leu	Ala	Trp
			85						90					95	
Trp	Ile	Ala	Ala	Leu	Val	Leu	Val	Leu	Phe	Tyr	Pro	Gly	Ser	Ala	Ala
			100					105					110		

Ile	Trp	Arg	Asn	Ser	Lys	Val	Leu	Arg	Leu	Ile	Phe	Gly	Leu	Leu	Thr
		115					120					125			
Ile	Val	Pro	Phe	Phe	Trp	Gly	Met	Val	Ala	Leu	Arg	Ala	Trp	His	Tyr
		130					135					140			
Asp	Glu	Asn	His	Tyr	Ser	Gly	Ala	Ile	Trp	Leu	Leu	Tyr	Val	Met	Ile
145					150					155					160
Leu	Val	Trp	Gly	Ala	Asp	Ser	Gly	Ala	Tyr	Met	Phe	Gly	Lys	Leu	Phe
				165					170					175	
Gly	Lys	His	Lys	Leu	Ala	Pro	Lys	Val	Ser	Pro	Gly	Lys	Thr	Trp	Gln
			180					185					190		
Gly	Phe	Ile	Gly	Gly	Leu	Phe	Thr	Ala	Ala	Ile	Ile	Ser	Trp	Gly	Tyr
		195					200					205			
Gly	Val	Trp	Ala	Asn	Leu	Glu	Val	Ala	Pro	Ser	Thr	Leu	Leu	Val	Cys
		210				215					220				
Ser	Ile	Phe	Ala	Ala	Leu	Ala	Ser	Val	Leu	Gly	Asp	Leu	Thr	Glu	Ser
225					230					235					240
Met	Phe	Lys	Arg	Glu	Ala	Gly	Ile	Lys	Asp	Ser	Gly	His	Leu	Ile	Pro
				245					250					255	
Gly	His	Gly	Gly	Ile	Leu	Asp	Arg	Ile	Asp	Ser	Leu	Thr	Ala	Ala	Val
			260					265					270		
Pro	Val	Phe	Ala	Cys	Leu	Leu	Leu	Val	Phe	Gly	Thr	Ile			
		275					280					285			

<210> 8357

<211> 483

<212> PRT

<213> Enterobacter cloacae

<400> 8357

Glu	Glu	Arg	Ile	Ile	Thr	Met	Ala	Met	Lys	Lys	Leu	Leu	Ile	Ala	Ser
1				5					10					15	
Leu	Leu	Phe	Ser	Ser	Ala	Thr	Val	Tyr	Gly	Ala	Asp	Gly	Phe	Val	Val
			20					25					30		
Lys	Asp	Ile	His	Phe	Glu	Gly	Leu	Gln	Arg	Val	Ala	Val	Gly	Ala	Ala
		35					40					45			
Leu	Leu	Ser	Met	Pro	Val	Arg	Pro	Gly	Asp	Thr	Val	Asn	Asp	Glu	Asp
		50				55				60					
Ile	Ser	Asn	Thr	Ile	Arg	Ala	Leu	Phe	Ala	Thr	Gly	Asn	Phe	Glu	Asp
65					70					75					80
Val	Arg	Val	Leu	Arg	Asp	Gly	Asp	Thr	Leu	Val	Val	Gln	Val	Lys	Glu
				85				90						95	
Arg	Pro	Thr	Ile	Ala	Ser	Ile	Thr	Phe	Ser	Gly	Asn	Lys	Ser	Val	Lys
			100					105					110		
Asp	Asp	Met	Leu	Lys	Gln	Asn	Leu	Glu	Ala	Ser	Gly	Val	Arg	Val	Gly
		115					120					125			
Glu	Ser	Leu	Asp	Arg	Thr	Thr	Leu	Ala	Asp	Ile	Glu	Lys	Gly	Leu	Glu
		130				135					140				
Asp	Phe	Tyr	Tyr	Ser	Val	Gly	Lys	Tyr	Ser	Ala	Ser	Val	Lys	Ala	Val
145					150					155					160
Val	Thr	Pro	Leu	Pro	Arg	Asn	Arg	Val	Asp	Leu	Lys	Leu	Val	Phe	Gln
				165					170					175	
Glu	Gly	Val	Ser	Ala	Lys	Ile	Gln	Gln	Ile	Asn	Ile	Val	Gly	Asn	His
			180					185					190		
Ala	Phe	Ser	Thr	Asp	Glu	Leu	Ile	Ser	Asn	Phe	Gln	Leu	Arg	Asp	Glu
		195					200					205			
Val	Pro	Trp	Trp	Asn	Val	Val	Gly	Asp	Arg	Lys	Tyr	Gln	Lys	Gln	Lys
		210				215					220				
Leu	Ala	Gly	Asp	Leu	Glu	Thr	Leu	Arg	Ser	Tyr	Tyr	Leu	Asp	Arg	Gly
225					230					235					240
Tyr	Ala	Arg	Phe	Asn	Ile	Asp	Ser	Thr	Gln	Val	Ser	Leu	Thr	Pro	Asp
				245					250					255	

Lys Lys Gly Ile Tyr Ile Thr Val Asn Ile Thr Glu Gly Asp Lys Tyr
 260 265 270
 Thr Leu Ser Gly Val Glu Val Ser Gly Asn Leu Ala Gly His Ser Ala
 275 280 285
 Glu Ile Glu Ser Leu Thr Lys Ile Gln Pro Gly Asp Leu Tyr Ser Gly
 290 295 300
 Ser Lys Val Thr Lys Met Glu Asp Ser Ile Lys Lys Leu Leu Gly Arg
 305 310 315 320
 Tyr Gly Tyr Ala Tyr Pro Arg Val Gln Thr Gln Pro Glu Ile Asn Asp
 325 330 335
 Thr Asp Lys Thr Val Lys Leu His Val Asn Val Asp Ala Gly Asn Arg
 340 345 350
 Phe Tyr Val Arg Lys Ile Arg Phe Glu Gly Asn Asp Thr Ser Lys Asp
 355 360 365
 Ser Val Leu Arg Arg Glu Met Arg Gln Met Glu Gly Ala Trp Leu Gly
 370 375 380
 Ser Asp Leu Val Asp Gln Gly Lys Glu Arg Leu Asn Arg Leu Gly Tyr
 385 390 395 400
 Phe Glu Thr Val Asp Thr Asp Thr Gln Arg Val Pro Gly Arg Pro Asp
 405 410 415
 Gln Val Asp Val Tyr Lys Val Lys Glu Arg Asn Thr Gly Ser Phe
 420 425 430
 Asn Phe Gly Ile Gly Tyr Gly Thr Glu Ser Gly Val Ser Phe Gln Val
 435 440 445
 Gly Val Gln Gln Asp Asn Trp Leu Gly Thr Gly Tyr Ser Val Gly Ile
 450 455 460
 Asn Gly Thr Lys Asn Asp Tyr Gln Thr Tyr Ser Glu Phe Ser Val Thr
 465 470 475 480
 Asn Pro

<210> 8358

<211> 334

<212> PRT

<213> Enterobacter cloacae

<400> 8358

Phe Thr Val Asp Gly Val Ser Leu Gly Gly Arg Ile Phe Tyr Asn Asp
 1 5 10 15
 Phe Lys Ala Asp Asp Ala Asp Leu Ser Tyr Thr Asn Lys Ser Tyr
 20 25 30
 Gly Leu Asp Gly Thr Leu Gly Phe Pro Val Asn Glu Tyr Asn Thr Leu
 35 40 45
 Arg Ala Gly Leu Gly Tyr Val His Asn Asp Leu Ser Asn Met Gln Pro
 50 55 60
 Gln Val Ala Met Trp Arg Tyr Leu Asp Ser Ile Gly Gln Ser Ala Ser
 65 70 75 80
 Thr Ser Ser Asp Asp Asn Gly Phe Ala Ala Asp Asp Phe Thr Phe Asn
 85 90 95
 Tyr Gly Trp Thr Tyr Asn Arg Leu Asp Arg Gly Tyr Phe Pro Thr Glu
 100 105 110
 Gly Ser Arg Val Asn Leu Asn Gly Lys Val Thr Ile Pro Gly Ser Asp
 115 120 125
 Asn Glu Phe Tyr Lys Val Thr Leu Asp Thr Ala Ser Tyr Phe Pro Ile
 130 135 140
 Asp Glu Asp His Lys Trp Val Val Leu Gly Arg Thr Arg Trp Gly Tyr
 145 150 155 160
 Gly Asp Gly Ile Gly Ser Lys Glu Leu Pro Phe Tyr Glu Asn Phe Tyr
 165 170 175
 Ala Gly Gly Ser Ser Thr Val Arg Gly Phe Gln Ser Asn Asn Ile Gly
 180 185 190

Pro Lys Ala Val Tyr Tyr Gly Gly Asn Asp Glu Asp Asn Cys Asn Lys
 195 200 205
 Pro Ala Thr Asp Gly Ala Gly Asn Lys Asn Val Cys Ser Ser Asp Asp
 210 215 220
 Ala Val Gly Gly Asn Ala Met Ala Val Ala Ser Leu Glu Phe Ile Thr
 225 230 235 240
 Pro Thr Pro Phe Ile Ser Asp Lys Tyr Ala Asn Ser Val Arg Thr Ser
 245 250 255
 Phe Phe Met Asp Ala Gly Thr Val Trp Asp Thr Asn Trp Gln Asn Thr
 260 265 270
 Thr Glu Thr Arg Leu Ala Gly Val Pro Asp Tyr Ser Asp Pro Ser Asn
 275 280 285
 Ile Arg Met Ser Ala Gly Ile Ala Leu Gln Trp Met Ser Pro Leu Gly
 290 295 300
 Pro Leu Val Phe Ser Tyr Ala Gln Pro Phe Lys Lys Tyr Asp Gly Asp
 305 310 315 320
 Lys Ala Glu Gln Phe Gln Phe Asn Ile Gly Lys Thr Trp
 325 330

<210> 8359
 <211> 187
 <212> PRT
 <213> Enterobacter cloacae

<400> 8359
 Asn Asp Arg Leu Ala Thr Gln Arg Thr Val Pro Leu Gly Cys Gln Trp
 1 5 10 15
 Asp Gly Lys Glu Leu Ile Val Lys Lys Trp Leu Leu Ala Ala Gly Leu
 20 25 30
 Gly Leu Ala Met Ala Thr Ser Ala Gln Ala Ala Asp Lys Ile Ala Ile
 35 40 45
 Val Asn Met Gly Asn Leu Phe Gln Gln Val Ala Gln Lys Thr Gly Val
 50 55 60
 Ser Ala Thr Leu Glu Asn Glu Phe Lys Gly Arg Ala Ser Glu Leu Gln
 65 70 75 80
 Arg Met Glu Gly Asp Leu Gln Ser Lys Met Gln Arg Leu Gln Arg Asp
 85 90 95
 Gly Ser Thr Met Lys Ala Ser Glu Arg Ser Lys Leu Glu Lys Asp Val
 100 105 110
 Met Ser Gln Arg Gln Thr Phe Ser Gln Lys Ala Gln Ala Phe Glu Gln
 115 120 125
 Asp Arg Gln Arg Arg Ser Asn Glu Glu Arg Gly Lys Leu Val Thr Arg
 130 135 140
 Ile Gln Ser Ala Val Lys Ala Val Ala Ala Asp Gln Ser Ile Asp Leu
 145 150 155 160
 Val Val Asp Ser Asn Ala Val Ala Phe Asn Ser Ser Asp Val Lys Asp
 165 170 175
 Ile Thr Ala Asp Val Leu Lys Gln Val Lys
 180 185

<210> 8360
 <211> 343
 <212> PRT
 <213> Enterobacter cloacae

<400> 8360
 Val Met Pro Ser Ile Arg Leu Ala Asp Leu Ala Gln Gln Leu Asp Ala
 1 5 10 15
 Glu Leu His Gly Asp Gly Asp Ile Val Ile Thr Ala Val Ala Ser Met
 20 25 30
 Gln Ser Ala Lys Ala Gly Thr Ile Thr Phe Met Val Ser Pro Lys Tyr


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<210> 8361
<211> 210
<212> PRT
<213> Enterobacter cloacae
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Ala	Gly	Gly	Arg	Cys	Gly	Ala	Gly	Val	Ser	Thr	Met	Met	Glu	Phe	Ile
1				5					10					15	
Tyr	Pro	His	Thr	His	Leu	Val	Ala	Gly	Val	Asp	Glu	Val	Gly	Arg	Gly
			20					25					30		
Pro	Leu	Val	Gly	Ala	Val	Val	Thr	Ala	Ala	Val	Ile	Leu	Asp	Pro	Ala
			35				40					45			
Arg	Pro	Ile	Val	Gly	Leu	Asn	Asp	Ser	Lys	Lys	Leu	Ser	Glu	Lys	Arg
	50					55					60				
Arg	Leu	Ala	Leu	Phe	Asp	Glu	Ile	Lys	Glu	Lys	Ala	Leu	Ala	Trp	Ser
65					70					75					80
Leu	Gly	Arg	Ala	Glu	Pro	His	Glu	Ile	Asp	Asp	Leu	Asn	Ile	Leu	His
				85					90					95	
Ala	Thr	Met	Leu	Ala	Met	Gln	Arg	Ala	Val	Ala	Gly	Leu	Lys	Ile	Val
			100					105					110		
Pro	Glu	Tyr	Val	Leu	Phe	Asp	Gly	Asn	Arg	Cys	Pro	Ala	Leu	Pro	Met

115 120 125
 Pro Ser Met Ala Val Val Lys Gly Asp Ser Arg Val Ala Glu Ile Ser
 130 135 140
 Ala Ala Ser Ile Ile Ala Lys Val Thr Arg Asp Ala Glu Met Ala Ala
 145 150 155 160
 Leu Asp Leu Thr Tyr Pro Ala Tyr Gly Phe Ala Gln His Lys Gly Tyr
 165 170 175
 Pro Thr Ala Phe His Leu Glu Lys Leu Ala Glu His Gly Ala Thr Glu
 180 185 190
 His His Arg Arg Ser Phe Gly Pro Val Lys Arg Ala Leu Gly Leu Val
 195 200 205
 Ser
 210

<210> 8362

<211> 712

<212> PRT

<213> Enterobacter cloacae

<400> 8362

Thr Met Asn Ile Ile Ala Ile Met Gly Pro His Gly Val Phe Tyr Lys
 1 5 10 15
 Asp Glu Pro Ile Lys Glu Leu Glu Gln Ala Leu Lys Ala Arg Gly Tyr
 20 25 30
 Gln Leu Ile Trp Pro Gln Asn Ser Ala Asp Leu Leu Lys Phe Ile Glu
 35 40 45
 His Asn Pro Arg Ile Cys Gly Val Ile Phe Asp Trp Asp Glu Tyr Asp
 50 55 60
 Met Glu Leu Cys Ser Asp Ile Asn Lys Leu Asn Glu Tyr Leu Pro Leu
 65 70 75 80
 Tyr Ala Phe Ile Asn Thr His Ser Thr Met Asp Val Ser Ala His Asp
 85 90 95
 Met Arg Met Ala Leu Trp Phe Phe Glu Tyr Ser Leu Gly Val Ala Glu
 100 105 110
 Asp Ile Ala Thr Arg Ile Gln Gln Tyr Thr Gly Glu Tyr Leu Asp Asn
 115 120 125
 Ile Thr Pro Pro Phe Thr Arg Ala Leu Phe Thr Tyr Val Lys Glu Gly
 130 135 140
 Lys Tyr Thr Phe Cys Thr Pro Gly His Met Ala Gly Thr Ala Tyr Gln
 145 150 155 160
 Lys Ser Pro Val Gly Cys Leu Phe Tyr Asp Phe Phe Gly Gly Asn Thr
 165 170 175
 Leu Lys Ala Asp Val Ser Ile Ser Val Thr Glu Leu Gly Ser Leu Leu
 180 185 190
 Asp His Thr Gly Pro His Leu Glu Ala Glu Glu Tyr Ile Ala Arg Thr
 195 200 205
 Phe Gly Ala Glu Gln Ser Tyr Met Val Thr Asn Gly Thr Ser Thr Ser
 210 215 220
 Asn Lys Ile Val Gly Met Tyr Ala Ala Pro Ala Gly Ser Thr Leu Leu
 225 230 235 240
 Ile Asp Arg Asn Cys His Lys Ser Leu Ala His Leu Leu Met Met Ser
 245 250 255
 Asp Val Val Pro Leu Trp Leu Ser Pro Thr Arg Asn Ala Leu Gly Ile
 260 265 270
 Leu Gly Gly Ile Pro Arg Arg Glu Phe Ala His Glu Ala Ile Glu Asn
 275 280 285
 Lys Ile Ala Ala Ile Pro Glu Ala Ser Trp Pro Val His Ala Val Ile
 290 295 300
 Thr Asn Ser Thr Tyr Asp Gly Leu Leu Tyr Asn Thr Asn Trp Ile Lys
 305 310 315 320
 Gln Thr Leu Asp Val Pro Ser Ile His Phe Asp Ser Ala Trp Val Pro

				325					330					335			
Tyr	Thr	Asn	Phe	His	Pro	Ile	Tyr	Ser	Gly	Lys	Ser	Gly	Met	Ser	Gly		
			340					345					350				
Glu	Arg	Val	Pro	Gly	Lys	Val	Phe	Phe	Glu	Thr	Gln	Ser	Thr	His	Lys		
		355					360					365					
Met	Leu	Ala	Ala	Phe	Ser	Gln	Ala	Ser	Leu	Ile	His	Ile	Lys	Gly	Glu		
	370					375					380						
Tyr	Asp	Glu	Asp	Thr	Phe	Asn	Glu	Ala	Phe	Met	Met	His	Thr	Thr	Thr		
385					390					395					400		
Ser	Pro	Ser	Tyr	Pro	Leu	Val	Ala	Ser	Ile	Glu	Thr	Ala	Ala	Ala	Met		
			405						410					415			
Leu	Arg	Gly	Asn	Pro	Gly	Lys	Arg	Leu	Ile	Asn	Arg	Ser	Val	Glu	Arg		
		420						425					430				
Ala	Leu	His	Phe	Arg	Lys	Glu	Val	Gln	Arg	Leu	Lys	Asp	Glu	Ala	Asp		
	435					440					445						
Gly	Trp	Phe	Phe	Asp	Ile	Trp	Gln	Pro	Glu	Glu	Ile	Asp	Glu	Ala	Glu		
	450					455					460						
Cys	Trp	Pro	Val	Ala	Pro	Gly	Glu	Ser	Trp	His	Gly	Phe	Arg	Asp	Ala		
465					470					475					480		
Asp	Ala	Asp	His	Met	Phe	Leu	Asp	Pro	Val	Lys	Val	Thr	Ile	Leu	Thr		
			485					490						495			
Pro	Gly	Met	Asp	Glu	Gln	Gly	Val	Met	Gly	Glu	Glu	Gly	Ile	Pro	Ala		
		500						505					510				
Ala	Leu	Val	Ala	Lys	Phe	Leu	Asp	Glu	Arg	Gly	Val	Val	Val	Glu	Lys		
	515					520					525						
Thr	Gly	Pro	Tyr	Asn	Leu	Leu	Phe	Leu	Phe	Ser	Ile	Gly	Ile	Asp	Lys		
	530				535						540						
Thr	Arg	Ala	Met	Gly	Leu	Leu	Arg	Gly	Leu	Met	Glu	Phe	Lys	Arg	Ala		
545				550					555						560		
Tyr	Asp	Leu	Asn	Leu	Arg	Val	Lys	Asn	Met	Leu	Pro	Asp	Leu	Tyr	Ala		
			565					570						575			
Glu	Asp	Pro	Asp	Phe	Tyr	Arg	Asn	Met	Arg	Ile	Gln	Asp	Leu	Ala	Gln		
		580					585						590				
Gly	Ile	His	Arg	Leu	Ile	Arg	Gln	His	Asp	Leu	Pro	Arg	Leu	Met	Leu		
	595					600					605						
Gln	Ala	Phe	Asp	Val	Leu	Pro	Glu	Met	Lys	Leu	Thr	Pro	His	Arg	Ala		
	610				615						620						
Trp	Gln	Arg	Gln	Val	Lys	Gly	Glu	Val	Glu	Thr	Val	Glu	Leu	Glu	Asn		
625				630					635						640		
Leu	Val	Gly	Arg	Val	Ser	Ala	Asn	Met	Ile	Leu	Pro	Tyr	Pro	Pro	Gly		
			645					650						655			
Val	Pro	Leu	Leu	Met	Pro	Gly	Glu	Met	Ile	Thr	Glu	Glu	Ser	Arg	Ala		
	660						665						670				
Val	Leu	Asp	Phe	Leu	Leu	Met	Leu	Cys	Ser	Val	Gly	Arg	His	Tyr	Pro		
	675					680					685						
Gly	Phe	Glu	Thr	Asp	Ile	His	Gly	Ala	Lys	Arg	Asp	Asp	Asn	Gly	Val		
	690				695						700						
Tyr	Trp	Val	Arg	Val	Leu	Lys											
705				710													

<210> 8363

<211> 134

<212> PRT

<213> Enterobacter cloacae

<400> 8363

Lys	Gly	Glu	Thr	Met	Leu	Gly	Leu	Lys	Ala	Val	His	His	Ile	Ala	Ile		
1				5				10					15				
Ile	Ala	Thr	Asp	Tyr	Ala	Lys	Ser	Lys	Ala	Phe	Tyr	Cys	Asp	Val	Leu		
		20					25					30					
Gly	Phe	Thr	Leu	Leu	Ser	Glu	Ala	Tyr	Arg	Glu	Glu	Arg	Asp	Ser	Trp		

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<210> 8364
<211> 400
<212> PRT
<213> Enterobacter cloacae
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Leu 1	Asn	Phe	Pro	Met 5	Leu	Glu	Leu	Cys	Ser 10	Arg	Glu	Gly	Phe	Met 15	Ala
Gly	Trp	His	Leu 20	Asp	Thr	Lys	Met	Ala 25	Gln	Asp	Ile	Val	Ala 30	Arg	Thr
Met	Arg	Ile 35	Ile	Asp	Thr	Asn	Ile 40	Asn	Val	Met	Asp	Ala 45	Arg	Gly	Arg
Ile	Ile 50	Gly	Ser	Gly	Asp	Arg	Glu 55	Arg	Ile	Gly	Glu 60	Leu	His	Glu	Gly
Ala 65	Leu	Leu	Val	Leu	Ser 70	Gln	Gly	Arg	Val	Val 75	Asp	Ile	Asp	Asp	Ala 80
Val	Ala	Lys	His	Leu 85	His	Gly	Val	Arg	Gln	Gly 90	Ile	Asn	Leu	Pro	Leu
Arg	Leu	Glu	Gly 100	Glu	Ile	Val	Gly	Val 105	Ile	Gly	Leu	Thr	Gly 110	Asp	Pro
Glu	Ser	Leu 115	Arg	Lys	Tyr	Gly	Glu 120	Leu	Val	Cys	Met	Thr 125	Ala	Glu	Met
Met	Leu 130	Glu	Gln	Ser	Arg	Leu 135	Met	His	Leu	Leu	Ala 140	Gln	Asp	Ser	Arg
Leu 145	Arg	Glu	Glu	Leu	Val 150	Met	Asn	Leu	Ile	Gln 155	Ala	Glu	Glu	His	Thr 160
Pro	Ala	Leu	Ser	Glu 165	Trp	Ala	Gln	Arg	Leu 170	Gly	Ile	Asp	Leu	Asn 175	Gln
Pro	Arg	Val 180	Val	Ala	Val	Ile	Glu	Val 185	Asp	Ser	Gly	Gln	Leu 190	Gly	Val
Asp	Ser	Ala 195	Met	Val	Glu	Leu	Gln 200	Gln	Leu	Gln	Asn	Met 205	Leu	Ala	Thr
Pro	Glu 210	Arg	Asn	Asn	Leu	Val 215	Ala	Ile	Val	Ser	Leu 220	Thr	Glu	Met	Val
Val 225	Leu	Lys	Pro	Ala	Leu 230	Asn	Gln	Phe	Gly	Arg 235	Trp	Asp	Ala	Glu	Asp 240
His	Arg	Arg	Arg	Val 245	Glu	Leu	Leu	Ile	Glu 250	Arg	Met	Lys	Glu	Asn 255	Gly
Gln	Leu	Arg	Phe 260	Arg	Val	Ala	Leu	Gly 265	Asn	Tyr	Phe	Thr	Gly 270	Pro	Gly
Ser	Ile	Ala 275	Arg	Ser	Trp	Arg	Thr 280	Ala	Arg	Thr	Thr	Met 285	Met	Val	Gly
Lys	Gln 290	Arg	Met	Pro	Glu	Ser 295	Arg	Ser	Tyr	Phe	Tyr 300	Gln	Asp	Leu	Met
Leu 305	Pro	Val	Leu	Leu	Asp 310	Ser	Leu	Arg	Gly	Gly 315	Trp	Gln	Ala	Asn	Glu 320
Leu	Ala	Arg	Pro	Leu	Met	Arg	Leu	Lys	Ala	Met	Asp	Asn	Asn	Gly	Leu

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<210> 8365
<211> 424
<212> PRT
<213> Enterobacter cloacae
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Thr 1	Pro	Phe	Arg	Arg 5	Thr	Leu	Ser	Leu	Ala 10	Gly	Gly	Val	Leu 15	Leu	
Ser	Asp	Leu	Thr	Phe	Gly	His	Leu	Met 25	Lys	His	Leu	Thr	Leu 30	Leu	Gly
Ser	Thr	Gly 35	Ser	Ile	Gly	Cys	Ser 40	Thr	Leu	Asp	Val	Val 45	Arg	His	Asn
Pro	Asp 50	Ser	Tyr	Thr	Val	Ala 55	Leu	Val	Ala	Gly 60	Lys	Asn	Val	Gln	
Arg 65	Met	Val	Glu	Gln	Cys 70	Leu	Glu	Phe	Thr	Pro 75	Arg	Phe	Ala	Val	Met 80
Asp	Asp	Glu	Glu	Ser 85	Ala	Arg	Gln	Val	Lys 90	Ala	Leu	Leu	Gln	Glu 95	Lys
Gly	Cys	Arg	Thr 100	Glu	Val	Leu	Ser	Gly 105	Gln	Gln	Ala	Ala	Cys 110	Asp	Met
Ala	Ala	Leu 115	Asp	Glu	Val	Asp	Gln 120	Val	Met	Ala	Ala	Ile 125	Val	Gly	Ala
Ala	Gly 130	Leu	Leu	Pro	Thr	Leu 135	Ala	Ala	Ile	Asp	Ala	Gly 140	Lys	Asp	Val
Leu 145	Leu	Ala	Asn	Lys	Glu 150	Ser	Leu	Val	Thr	Cys 155	Gly	Arg	Leu	Phe	Met 160
Asp	Ala	Val	Lys	Gln 165	Arg	Gly	Ala	Arg	Leu 170	Leu	Pro	Val	Asp	Ser	Glu
His	Asn	Ala	Ile 180	Phe	Gln	Ser	Leu 185	Pro	Gln	Pro	Phe	Gln 190	Gln	Asn	Leu
Gly	Tyr	Ala 195	Asp	Leu	Glu	Gln	Asn 200	Gly	Val	Val	Ser	Ile 205	Leu	Leu	Thr
Gly	Ser 210	Gly	Gly	Pro	Phe	Arg 215	Glu	Thr	Pro	Leu	Ser	Glu 220	Leu	Ser	Ala
Met 225	Thr	Pro	Asp	Gln	Ala 230	Cys	Arg	His	Pro	Asn 235	Trp	Ser	Met	Gly	Arg 240
Lys	Ile	Ser	Val	Asp 245	Ser	Ala	Thr	Met	Met 250	Asn	Lys	Gly	Leu	Glu 255	Tyr
Ile	Glu	Ala	Arg 260	Trp	Leu	Phe	Asn 265	Ala	Ser	Ala	Lys	Gln 270	Met	Glu	Val
Leu	Ile	His 275	Pro	Gln	Ser	Val	Ile 280	His	Ser	Met	Val	Arg 285	Tyr	Gln	Asp
Gly	Ser 290	Val	Leu	Ala	Gln	Leu 295	Gly	Glu	Pro	Asp	Met 300	Arg	Thr	Pro	Ile
Ala 305	His	Thr	Met	Ala 310	Trp	Pro	Asn	Arg	Val	Lys 315	Ser	Gly	Val	Lys	Pro 320
Leu	Asp	Phe	Cys	Lys 325	Leu	Ser	Ser	Leu	Thr 330	Phe	Ser	Glu	Pro	Asp 335	Tyr
Asp	Arg	Tyr	Pro 340	Cys	Leu	Lys	Leu 345	Ala	Met	Thr	Ala	Phe 350	Asp	Gln	Gly
Gln	Ala	Ala	Thr	Thr	Ala	Leu	Asn	Ala	Ala	Asn	Glu	Val	Thr	Val	Glu

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<210> 8366
<211> 392
<212> PRT
<213> Enterobacter cloacae
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Thr	Phe	Asn	Pro	Trp	Ser	Asp	Ser	Leu	Met	Val	Asp	Ser	Arg	Pro	Leu
1				5					10					15	
Thr	Ile	Ala	Leu	Val	Ala	Gly	Glu	Thr	Ser	Gly	Asp	Ile	Leu	Gly	Ala
			20					25					30		
Gly	Leu	Ile	Arg	Ala	Leu	Lys	Ala	Arg	Val	Pro	Asn	Ala	Arg	Phe	Val
		35					40				45				
Gly	Val	Ala	Gly	Pro	Leu	Met	Gln	Ala	Glu	Gly	Cys	Glu	Ala	Trp	Tyr
	50					55					60				
Glu	Met	Glu	Glu	Leu	Ala	Val	Met	Gly	Ile	Val	Glu	Val	Leu	Gly	Arg
65					70					75					80
Leu	Arg	Arg	Leu	Leu	His	Ile	Arg	Ala	Asp	Leu	Thr	Arg	Arg	Phe	Thr
				85					90					95	
Asp	Leu	Lys	Pro	Asp	Val	Phe	Val	Gly	Ile	Asp	Ala	Pro	Asp	Phe	Asn
			100					105					110		
Ile	Thr	Leu	Glu	Gly	Asn	Leu	Lys	Gln	Gly	Ile	Lys	Thr	Ile	His	
		115					120				125				
Tyr	Val	Ser	Pro	Ser	Val	Trp	Ala	Trp	Arg	Gln	Lys	Arg	Val	Phe	Lys
	130					135					140				
Ile	Gly	Arg	Ser	Thr	Asn	Leu	Val	Leu	Ala	Phe	Leu	Pro	Phe	Glu	Lys
145					150					155					160
Ala	Phe	Tyr	Asp	Arg	Phe	Asn	Val	Pro	Cys	Arg	Phe	Ile	Gly	His	Thr
				165					170					175	
Met	Ala	Asp	Ala	Met	Pro	Leu	Asp	Pro	Asp	Lys	Asn	Ala	Ala	Arg	Asp
			180					185					190		
Glu	Leu	Gly	Ile	Pro	His	Asp	Val	His	Cys	Leu	Ala	Leu	Leu	Pro	Gly
		195					200					205			
Ser	Arg	Gly	Ala	Glu	Val	Glu	Met	Leu	Ser	Ala	Asp	Phe	Leu	Lys	Thr
	210					215					220				
Ala	Gln	Ile	Leu	Arg	Lys	Thr	Tyr	Pro	Asp	Leu	Glu	Val	Val	Val	Pro
225					230					235					240
Leu	Val	Asn	Ala	Lys	Arg	Arg	Glu	Gln	Phe	Glu	Arg	Ile	Lys	Ala	Asp
				245					250					255	
Val	Ala	Pro	Asp	Leu	His	Val	Arg	Leu	Leu	Asp	Gly	Lys	Gly	Arg	Gln
			260					265					270		
Ala	Met	Phe	Ala	Ser	Asp	Ala		Ala	Leu	Leu	Ala	Ser	Gly	Thr	Ala
		275					280					285			
Leu	Glu	Cys	Met	Leu	Ala	Lys	Cys	Pro	Met	Val	Val	Gly	Tyr	Arg	Met
	290					295					300				
Lys	Pro	Phe	Thr	Phe	Trp	Leu	Ala	Lys	Arg	Leu	Val	Lys	Thr	Asp	Tyr
305					310					315					320
Val	Ser	Leu	Pro	Asn	Leu	Leu	Ala	Gly	Arg	Glu	Leu	Val	Lys	Glu	Leu
				325					330					335	
Leu	Gln	Asp	Glu	Cys	Gln	Pro	Gln	Ala	Leu	Ala	Asp	Ala	Leu	Leu	Pro
			340					345					350		
Leu	Leu														

	355		360		365										
Glu	Leu	His	Gln	Leu	Ile	Arg	Cys	Asn	Ala	Asp	Glu	Gln	Ala	Ala	Asp
	370					375					380				
Ala	Val	Leu	Glu	Leu	Ala	Gln									
385						390									

<210> 8367

<211> 359

<212> PRT

<213> Enterobacter cloacae

<400> 8367

Phe	Pro	Met	Thr	Leu	Pro	Ala	Ile	Ala	His	Ala	Val	Ser	Pro	Tyr	Arg
1				5				10						15	
Gln	Leu	Leu	Val	Gly	Phe	Ser	Gly	Gly	Leu	Asp	Ser	Thr	Val	Leu	Leu
			20				25						30		
His	Arg	Leu	Lys	Leu	Trp	Arg	Asp	Arg	Glu	Pro	Asp	Val	Gln	Leu	Arg
			35				40					45			
Ala	Met	His	Ile	His	His	Gly	Leu	Ser	Pro	His	Ala	Asp	Asp	Trp	Val
	50					55					60				
Ala	His	Cys	Glu	Ala	Val	Cys	Ser	Gly	Trp	Glu	Ile	Pro	Leu	Ile	Val
65					70					75				80	
Glu	Arg	Val	Thr	Leu	Glu	Asp	Glu	Gly	Leu	Gly	Ile	Glu	Ala	Gln	Ala
				85					90					95	
Arg	Lys	Ala	Arg	Tyr	Ala	Ala	Phe	Ser	Gly	Ala	Leu	Gln	Pro	Gly	Glu
			100					105					110		
Ala	Leu	Val	Thr	Ala	Gln	His	Leu	Asp	Asp	Gln	Cys	Glu	Thr	Phe	Leu
	115						120					125			
Leu	Ala	Leu	Lys	Arg	Gly	Ser	Gly	Pro	Ala	Gly	Leu	Ser	Ala	Met	Pro
	130					135					140				
Glu	Arg	Ala	Asp	Phe	Ala	Glu	Thr	Glu	Leu	Ile	Arg	Pro	Leu	Leu	Gly
145				150						155					160
Glu	Thr	Arg	Ala	Ser	Leu	Glu	Ala	Trp	Ala	Gln	Gln	His	His	Leu	Cys
				165					170					175	
Trp	Ile	Glu	Asp	Asp	Ser	Asn	Gln	Asp	Asp	Ser	Tyr	Asp	Arg	Asn	Phe
			180					185					190		
Leu	Arg	Leu	Arg	Val	Leu	Pro	Leu	Leu	Ser	Glu	Arg	Trp	Ala	His	Phe
	195						200					205			
Ser	Glu	Ala	Ala	Ala	Arg	Ser	Ala	Met	Leu	Cys	Ala	Glu	Gln	Glu	Ser
	210					215					220				
Leu	Leu	Asp	Glu	Leu	Leu	Ser	Gly	Glu	Leu	Asn	Thr	Leu	Ile	Thr	Ala
225				230						235					240
Asp	Gly	Ala	Leu	Asn	Val	Ala	Pro	Leu	Lys	Val	Met	Ser	Pro	Val	Arg
				245					250					255	
Arg	Ala	Ala	Leu	Ile	Arg	Arg	Trp	Leu	Ala	Tyr	His	Arg	Ala	Val	Met
			260					265					270		
Pro	Ser	Arg	Ala	Met	Leu	Asn	Arg	Ile	Trp	Glu	Glu	Val	Ala	Gln	Ala
	275						280					285			
Arg	Glu	Asp	Ala	Ala	Pro	Cys	Ile	His	Leu	Asn	Gly	Tyr	Asp	Val	Arg
	290					295					300				
Arg	Tyr	Lys	Gly	Gln	Leu	Trp	Trp	Val	Lys	Ser	Val	Pro	Ser	Leu	Ala
305					310					315					320
Asp	Val	Val	Leu	Asp	Trp	Pro	Ser	Pro	Glu	Lys	Ala	Leu	Thr	Leu	Pro
				325					330					335	
Met	Asn	Ala	Gly	Val	Val	Ala	Leu	Ser	His	Ser	Phe	Phe	Thr	His	Arg
			340					345					350		
Gly	Trp	Gln	His	Arg	Ala										
															355

<210> 8368

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 8368

Lys	Arg	Pro	Ile	Thr	Ile	Leu	Gly	Arg	Gln	Asn	Ser	Leu	Gly	His	Pro
1				5					10					15	
Arg	Ile	Gly	Leu	Thr	Val	Ala	Lys	Lys	Asn	Val	Lys	Arg	Ala	His	Glu
			20					25					30		
Arg	Asn	Arg	Ile	Lys	Arg	Leu	Thr	Arg	Glu	Ser	Phe	Arg	Val	Arg	Gln
			35				40					45			
His	Glu	Leu	Pro	Ser	Met	Asp	Phe	Val	Val	Val	Ala	Lys	Lys	Gly	Val
	50					55					60				
Ala	Asp	Leu	Asp	Asn	Arg	Ala	Leu	Ser	Glu	Ala	Leu	Glu	Lys	Leu	Trp
65					70					75					80
Arg	Arg	His	Cys	Arg	Leu	Ala	Arg	Gly	Ser						
				85					90						

<210> 8369

<211> 379

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (126)

<220>

<221> UNSURE

<222> (168)

<400> 8369

Val	Cys	Gly	Glu	Thr	Trp	Ala	Thr	Ala	Tyr	Arg	Thr	Pro	Val	Arg	Asn
1				5					10					15	
Arg	Trp	Glu	Ile	Ser	Thr	Phe	Gly	Gln	Leu	Lys	Gln	Ser	Ile	Asn	Leu
			20					25					30		
Pro	Ser	His	Arg	Asp	Thr	Gly	Ser	Ser	Asn	Phe	Ala	Leu	His	Thr	Phe
			35				40					45			
Arg	Gly	Ala	Ala	Tyr	Ser	Thr	Pro	Asp	Thr	Lys	Tyr	Glu	Lys	Tyr	Lys
	50					55					60				
Phe	Asp	Thr	Ile	Ala	Asp	Asn	Glu	Asn	Leu	Asn	Val	Ser	Ser	Lys	Gly
65					70				75						80
Gly	Trp	Val	Ala	Met	Leu	Gln	Gln	Tyr	Phe	Ala	Thr	Ala	Trp	Val	Pro
				85					90					95	
Asn	Asn	Asp	Gly	Thr	Asn	Tyr	Phe	Tyr	Thr	Ala	Asn	Leu	Gly	Asn	Gly
			100					105					110		
Ile	Ala	Ala	Ile	Gly	Tyr	Lys	Ser	Gln	Pro	Val	Leu	Val	Xaa	Pro	Gly
		115				120						125			
Gln	Thr	Gly	Lys	Leu	Ala	Ser	Thr	Leu	Trp	Val	Gly	Pro	Glu	Ile	Gln
		130				135					140				
Asp	Lys	Met	Ala	Ala	Val	Ala	Pro	His	Leu	Asp	Leu	Thr	Val	Asp	Tyr
145					150				155						160
Gly	Trp	Leu	Trp	Phe	Ile	Ser	Xaa	Pro	Leu	Phe	Lys	Leu	Leu	Lys	Phe
				165					170					175	
Ile	His	Ser	Phe	Leu	Gly	Asn	Trp	Gly	Phe	Ser	Ile	Ile	Val	Ile	Thr
			180					185					190		
Phe	Ile	Val	Arg	Gly	Ile	Met	Tyr	Pro	Leu	Thr	Lys	Ala	Gln	Tyr	Thr
		195				200						205			
Ser	Met	Ala	Lys	Met	Arg	Met	Leu	Gln	Pro	Lys	Ile	Gln	Ala	Met	Arg
	210					215					220				
Glu	Arg	Leu	Gly	Asp	Asp	Lys	Gln	Arg	Gln	Ser	Gln	Glu	Met	Met	Ala
225					230					235					240

Leu Tyr Lys Ala Glu Lys Val Asn Pro Leu Gly Gly Cys Phe Pro Leu
 245 250 255
 Leu Ile Gln Met Pro Ile Phe Leu Ala Leu Tyr Tyr Met Leu Met Gly
 260 265 270
 Ser Val Glu Leu Arg His Ala Pro Phe Ala Leu Trp Ile His Asp Leu
 275 280 285
 Ser Ala Gln Asp Pro Tyr Tyr Ile Leu Pro Ile Leu Met Gly Val Thr
 290 295 300
 Met Phe Phe Ile Gln Lys Met Ser Pro Thr Thr Val Thr Asp Pro Met
 305 310 315 320
 Gln Gln Lys Ile Met Thr Phe Met Pro Val Ile Phe Thr Val Phe Phe
 325 330 335
 Leu Trp Phe Pro Ser Gly Leu Val Leu Tyr Tyr Ile Val Ser Asn Leu
 340 345 350
 Val Thr Ile Ile Gln Gln Gln Leu Ile Tyr Arg Gly Leu Glu Lys Arg
 355 360 365
 Gly Leu His Ser Arg Glu Lys Lys Lys Ser
 370 375

<210> 8370

<211> 459

<212> PRT

<213> Enterobacter cloacae

<400> 8370

Thr Arg Ala Thr Met Ser His Asn Asp Thr Ile Val Ala Gln Ala Thr
 1 5 10 15
 Pro Pro Gly Arg Gly Gly Val Gly Ile Leu Arg Ile Ser Gly Leu Lys
 20 25 30
 Ala Arg Glu Val Ala Glu Ala Val Leu Gly Lys Leu Pro Lys Pro Arg
 35 40 45
 Tyr Ala Asp Tyr Leu Pro Phe Lys Asp Ala Asp Gly Thr Pro Leu Asp
 50 55 60
 Gln Gly Ile Ala Leu Trp Phe Pro Gly Pro Asn Ser Phe Thr Gly Glu
 65 70 75 80
 Asp Val Leu Glu Leu Gln Gly His Gly Gly Pro Val Ile Leu Asp Leu
 85 90 95
 Leu Leu Lys Arg Ile Leu Thr Leu Pro Gly Leu Arg Ile Ala Lys Pro
 100 105 110
 Gly Glu Phe Ser Glu Arg Ala Phe Leu Asn Asp Lys Leu Asp Leu Ala
 115 120 125
 Gln Ala Glu Ala Ile Ala Asp Leu Ile Asp Ala Ser Ser Glu Gln Ala
 130 135 140
 Ala Arg Ser Ala Leu Asn Ser Leu Gln Gly Ala Phe Ser Ala Arg Val
 145 150 155 160
 Asn His Leu Val Glu Ala Leu Thr His Leu Arg Ile Tyr Val Glu Ala
 165 170 175
 Ala Ile Asp Phe Pro Asp Glu Glu Ile Asp Phe Leu Ser Asp Gly Lys
 180 185 190
 Ile Glu Ala Gln Leu Asn Gln Val Met Asn Asp Leu Asp Ala Val Arg
 195 200 205
 Ala Glu Ala Arg Gln Gly Ser Leu Leu Arg Glu Gly Met Lys Val Val
 210 215 220
 Ile Ala Gly Arg Pro Asn Ala Gly Lys Ser Ser Leu Leu Asn Ala Leu
 225 230 235 240
 Ala Gly Arg Glu Ala Ala Ile Val Thr Asp Ile Ala Gly Thr Thr Arg
 245 250 255
 Asp Val Leu Arg Glu His Ile His Ile Asp Gly Met Pro Leu His Ile
 260 265 270
 Ile Asp Thr Ala Gly Leu Arg Asp Ala Ser Asp Glu Val Glu Arg Ile
 275 280 285

Gly Ile Glu Arg Ala Trp Gln Glu Ile Glu Gln Ala Asp Arg Val Leu
 290 295 300
 Phe Met Val Asp Gly Thr Thr Asp Ala Val Asp Pro Ala Glu Ile
 305 310 315 320
 Trp Pro Asp Phe Ile Ala Arg Leu Pro Ala Lys Leu Pro Ile Thr Val
 325 330 335
 Val Arg Asn Lys Ala Asp Val Thr Gly Glu Thr Leu Gly Ile Ser Asp
 340 345 350
 Val Asn Gly His Ser Leu Ile Arg Leu Ser Ala Arg Thr Gly Glu Gly
 355 360 365
 Val Glu Ala Leu Arg Ser His Leu Lys Gln Ser Met Gly Phe Asp Thr
 370 375 380
 Ser Met Glu Gly Gly Phe Leu Ala Arg Arg Arg His Leu Gln Ala Leu
 385 390 395 400
 Glu Glu Ala Ala Arg His Leu Glu Gln Gly Lys Ala Gln Leu Ile Gly
 405 410 415
 Ala Trp Ala Gly Glu Leu Leu Ala Glu Glu Leu Arg Leu Ala Gln Gln
 420 425 430
 Asn Leu Ser Glu Ile Thr Gly Glu Phe Thr Ser Asp Asp Leu Leu Gly
 435 440 445
 Arg Ile Phe Ser Ser Phe Cys Ile Gly Lys
 450 455

<210> 8371

<211> 429

<212> PRT

<213> Enterobacter cloacae

<400> 8371

Phe Pro Leu Ile Gln Gly Asp Phe His Gln Gly Asn His His Cys Pro
 1 5 10 15
 Asn Gly Asn Ser Pro Asn Pro Leu Ser Pro Pro Ile Leu His Ala Cys
 20 25 30
 Ile Tyr Gly Gly Phe Met Ala Arg Phe Leu Phe Cys Ser Phe Ala Leu
 35 40 45
 Val Leu Leu Tyr Pro Ser Gly Ile Asp Met Tyr Leu Val Gly Leu Pro
 50 55 60
 His Ile Ala Arg Asp Leu Gly Ala Ser Glu Ala Gln Leu His Ile Ala
 65 70 75 80
 Phe Ser Ala Tyr Leu Ala Gly Met Ala Ser Ser Met Val Phe Ala Gly
 85 90 95
 Lys Ile Ala Asp Lys Ala Gly Arg Gln Pro Val Ala Ile Thr Gly Ala
 100 105 110
 Val Ile Phe Ala Leu Ala Ser Val Leu Cys Ser Val Ala Gln Glu Ser
 115 120 125
 Thr Met Phe Leu Ser Gly Arg Phe Ile Gln Gly Ile Gly Ala Gly Gly
 130 135 140
 Cys Tyr Val Val Ala Phe Ala Ile Leu Arg Asp Thr Leu Ser Ala Gln
 145 150 155 160
 Arg Arg Ala Lys Val Leu Ser Met Leu Asn Gly Ile Thr Cys Ile Ile
 165 170 175
 Pro Val Leu Ala Pro Val Val Gly Tyr Leu Ile Met Leu Lys Phe Pro
 180 185 190
 Trp Gln Ser Leu Phe Trp Thr Met Ala Ala Met Gly Ala Ile Val Phe
 195 200 205
 Ile Leu Ser Val Thr Val Leu Lys Glu Thr His Pro Gly Ser Gln Gln
 210 215 220
 Pro Tyr His Thr Ala Thr Leu His Pro Ala Glu Lys Leu Val Asn Arg
 225 230 235 240
 Phe Phe Leu Ser Arg Leu Ala Ile Thr Thr Leu Ser Val Ala Val Ile
 245 250 255

Leu Thr Tyr Val Asn Val Ser Pro Val Leu Leu Met Glu Thr Met Gly
 260 265 270
 Phe Asp Arg Gly Glu Tyr Ser Thr Val Met Ala Leu Thr Ala Met Val
 275 280 285
 Ser Met Ala Val Ser Phe Ser Thr Pro Phe Ala Leu Asn Ile Phe Arg
 290 295 300
 Gln Arg Thr Leu Met Leu Thr Ser Gln Thr Leu Phe Leu Ala Ala Gly
 305 310 315 320
 Val Ile Leu Ala Thr Ala Thr Ser His Ala Val Met Leu Val Gly Ile
 325 330 335
 Thr Leu Ile Cys Ala Gly Phe Ser Val Gly Phe Gly Val Ala Met Ser
 340 345 350
 Gln Ala Leu Gly Pro Phe Ser Leu Arg Ala Gly Val Ala Ser Ser Val
 355 360 365
 Leu Gly Ile Ala Gln Val Cys Gly Ser Ser Leu Trp Ile Trp Leu Ala
 370 375 380
 Ala Val Ile Gly Leu Asn Ala Leu Asn Met Leu Ile Gly Val Leu Ile
 385 390 395 400
 Gly Cys Ser Ile Leu Cys Ile Thr Leu Leu Met Val Ile Gln Pro Ala
 405 410 415
 Ala His Tyr Glu Ala His Gln Gln Ser Arg Ser
 420 425

<210> 8372

<211> 259

<212> PRT

<213> Enterobacter cloacae

<400> 8372

Pro Thr Thr Thr Ile Lys Glu Arg Lys Met Ala Thr His Phe Ala
 1 5 10 15
 Arg Gly Thr Leu Thr Glu Gly His Leu Val Ser Ala Arg Leu Ser Ser
 20 25 30
 Ala Cys His Ser Glu Ala Leu Lys Leu Pro Glu His Arg Arg Thr Arg
 35 40 45
 Phe Leu Ala Ser Arg Ala Leu Leu Ala Glu Leu Leu Phe Met Leu Tyr
 50 55 60
 Gly Thr Ser Glu Leu Pro Asp Ile Leu Thr Gln Pro Glu Gly Arg Pro
 65 70 75 80
 Val Phe Ala Asp Pro Ala Leu Pro His Phe Ser Ile Ala Tyr Thr Gly
 85 90 95
 Asn Ile Val Gly Val Ala Leu Thr Thr Glu Gly Asp Cys Gly Leu Asp
 100 105 110
 Met Glu Leu Gln Arg Val Thr Arg Ser Phe His Gly Ala Asn Ala Leu
 115 120 125
 Asp Glu Tyr Pro Leu Ser Ser Asn Glu Lys Leu Trp Ile Arg Asn Gln
 130 135 140
 Asn Asp Pro Val Glu Ala Arg Ala Gln Leu Ile Thr Leu Arg Gln Ser
 145 150 155 160
 Ile Arg Lys Leu Asn Gly Ala Ala Ser Asp Asp Ala Ser Leu Leu Gln
 165 170 175
 Leu Leu Pro Gly Ser Gly Arg Leu Arg Ala Thr Lys Ala Ser Leu Val
 180 185 190
 Glu Ala Leu Ser Asp Ala Glu Asp Val Leu Ile Trp Ser Val Ala Val
 195 200 205
 Ser Pro Ala Ile Glu Arg Leu Lys Ile Trp Glu Phe Asp Ser Ile Arg
 210 215 220
 Gly Trp Arg Ser Leu Pro Asp Val Pro Glu Arg Ala Asn Glu Pro Ala
 225 230 235 240
 Ala Arg Leu Met Arg Leu Thr Ser Leu Pro Ala Glu Lys Ala Tyr Thr
 245 250 255

His Ser

<210> 8373

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 8373

Ser	Val	Gln	Gly	His	His	Asp	Glu	Thr	Gly	Val	Ile	Met	Ser	Asp	Thr
1				5					10					15	
Leu	Lys	Val	Val	Thr	Leu	Leu	Gly	Ser	Leu	Arg	Lys	Gly	Ser	Phe	Asn
			20					25					30		
Gly	Met	Val	Ala	Arg	Thr	Leu	Pro	Gln	Leu	Ala	Pro	Ala	Gly	Met	Glu
		35					40					45			
Ile	Ser	Ala	Leu	Pro	Ser	Ile	Gly	Asp	Ile	Pro	Leu	Tyr	Asp	Ala	Asp
	50					55					60				
Val	Gln	Gln	Glu	Glu	Gly	Phe	Pro	Gln	Ser	Val	Glu	Ala	Ile	Ala	Glu
65					70					75					80
Gln	Ile	Arg	Gln	Ala	Asp	Gly	Val	Val	Ile	Val	Thr	Pro	Glu	Tyr	Asn
				85					90					95	
Tyr	Ser	Val	Pro	Gly	Gly	Leu	Lys	Asn	Ala	Ile	Asp	Trp	Leu	Ser	Arg
			100					105					110		
Leu	Pro	Glu	Gln	Pro	Leu	Ser	Gly	Lys	Pro	Val	Leu	Ile	Gln	Thr	Ser
		115					120					125			
Ser	Met	Gly	Ala	Ile	Gly	Gly	Ala	Arg	Cys	Gln	Tyr	His	Leu	Arg	Gln
	130					135					140				
Ile	Leu	Val	Phe	Leu	Asp	Ala	Met	Val	Met	Asn	Lys	Pro	Glu	Phe	Met
145					150					155					160
Gly	Gly	Val	Ile	Gln	Asn	Lys	Val	Asp	Pro	Gln	Thr	Gly	Glu	Val	Val
				165					170					175	
Asp	Gln	Ser	Thr	Arg	Asp	His	Leu	Ser	Gly	Gln	Leu	Thr	Ala	Phe	Gly
			180					185					190		
Asp	Tyr	Ile	Lys	Arg	Val	Lys	Ala								
		195					200								

<210> 8374

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 8374

Tyr	Gln	Arg	Thr	Leu	Thr	Met	Asp	Ser	Gln	Arg	Asn	Leu	Leu	Ile	Ile
1				5					10					15	
Ala	Leu	Leu	Phe	Val	Ser	Phe	Met	Ile	Trp	Gln	Ala	Trp	Glu	Gln	Asp
			20					25					30		
Lys	Asn	Pro	Gln	Pro	Gln	Gln	Gln	Thr	Thr	Gln	Thr	Thr	Thr	Thr	Ala
		35					40					45			
Ala	Gly	Ser	Ala	Ala	Asp	Gln	Gly	Val	Pro	Ala	Ser	Gly	Gln	Gly	Lys
	50					55					60				
Gln	Ile	Thr	Val	Lys	Thr	Asp	Val	Leu	Glu	Leu	Thr	Ile	Asn	Thr	Arg
65					70					75					80
Gly	Gly	Asp	Val	Glu	Gln	Ala	Leu	Leu	Leu	Thr	Tyr	Pro	Lys	Glu	Leu
				85					90					95	
Lys	Ser	Thr	Glu	Pro	Phe	Gln	Leu	Leu	Glu	Thr	Thr	Pro	Glu	Phe	Ile
			100					105					110		
Tyr	Gln	Ala	Gln	Ser	Gly	Leu	Thr	Gly	Arg	Asp	Gly	Pro	Asp	Asn	Pro
		115				120						125			
Ala	Asn	Gly	Ala	Arg	Pro	Leu	Tyr	Asn	Val	Glu	Asn	Asp	Thr	Phe	Val
	130					135					140				
Leu	Ala	Asp	Gly	Gln	Asn	Glu	Leu	Val	Ile	Pro	Met	Thr	Tyr	Thr	Asp

145		150		155		160									
Ala	Ala	Gly	Asn	Thr	Phe	Thr	Lys	Thr	Phe	Thr	Leu	Lys	Arg	Gly	Glu
			165						170					175	
Tyr	Ala	Val	Lys	Leu	Gly	Leu	Gln	Arg	Thr	Glu	Arg	Arg	Cys	Glu	Thr
			180					185					190		
Ala	Gly	Lys	Ser	Leu	Pro	Leu	Val	Ser							
		195					200								

<210> 8375

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 8375

Pro	Ala	Pro	Pro	Ala	Thr	Cys	Cys	Ala	Ser	Ile	Ser	Thr	Ser	Thr	Glu
1				5					10					15	
Cys	Arg	Cys	Thr	Ser	Ser	Thr	Pro	Leu	Ala	Cys	Ala	Met	Arg	Ala	Met
			20					25					30		
Lys	Ser	Ser	Val	Ser	Val	Ser	Asn	Ala	Pro	Gly	Arg	Arg	Ser	Ser	Arg
		35					40					45			
Pro	Thr	Ala	Cys	Cys	Leu	Trp	Trp	Thr	Ala	Pro	Gln	Pro	Thr	Pro	Leu
	50					55					60				
Thr	Arg	Leu	Lys	Ser	Gly	Gln	Thr	Leu	Ser	Pro	Val	Ser	Arg	Leu	Asn
65					70					75					80
Cys	Arg	Ser	Pro	Trp	Cys	Ala	Thr	Arg	Pro	Thr	Leu	Pro	Ala	Lys	Arg
				85					90					95	
Trp	Ala	Ser	Ala	Met											
				100											

<210> 8376

<211> 343

<212> PRT

<213> Enterobacter cloacae

<400> 8376

Leu	Ala	Val	Ala	Tyr	Ser	Ala	Leu	Pro	Tyr	Leu	Trp	Ser	Ser	Ser	Pro
1				5					10					15	
Arg	Arg	Thr	Met	Lys	Lys	Pro	Ile	Ser	Ser	Leu	Asp	Leu	Asn	Leu	Leu
			20					25					30		
Leu	Cys	Leu	Gln	Leu	Leu	Leu	Gln	Glu	Arg	Ser	Val	Thr	Lys	Ala	Ala
		35					40					45			
Lys	Arg	Met	Asn	Val	Thr	Pro	Ser	Ala	Val	Ser	Lys	Ser	Leu	Ala	Lys
	50					55					60				
Leu	Arg	Asp	Trp	Phe	Asp	Asp	Pro	Leu	Phe	Val	Lys	Thr	Pro	Leu	Gly
65					70					75					80
Leu	Leu	Pro	Thr	Pro	Leu	Thr	Val	Ser	Leu	Glu	Gln	Asp	Leu	Ala	Asp
				85				90						95	
Trp	Met	Gln	Ile	Gly	Asn	Gln	Ile	Leu	Asp	Lys	Phe	His	His	Ser	Ser
		100						105					110		
Pro	Gly	Gly	Leu	Lys	Phe	Val	Leu	Ala	Ala	Glu	Thr	Pro	Leu	Met	Leu
		115					120					125			
Ile	Arg	Phe	Asn	Thr	Leu	Leu	Glu	Gln	Val	Asn	Glu	Arg	Tyr	Pro	Gln
	130					135					140				
Ala	Thr	Val	Lys	Leu	Arg	Gln	Trp	Asp	Tyr	Asp	Ser	Leu	Asp	Ala	Ile
145					150					155					160
Thr	Arg	Gly	Glu	Val	Asp	Leu	Gly	Phe	Thr	Gly	Arg	Glu	Thr	His	Pro
				165					170					175	
Arg	Ser	Arg	Glu	Leu	Leu	Lys	Leu	Met	Pro	Trp	Phe	Ile	Asp	Tyr	Glu
			180					185					190		
Ile	Leu	Phe	Ser	Asp	Arg	Pro	Cys	Val	Tyr	Leu	Arg	Glu	Asp	His	Pro
		195					200					205			

Ala Leu Gln Glu Ala Trp Asp Leu Glu Thr Phe Leu Arg Tyr Pro His
 210 215 220
 Ile Ser Ile Phe Trp Glu Arg Ser Asp Thr Trp Ala Leu Asp Glu Val
 225 230 235 240
 Leu Arg Glu Met Gly Arg Glu Arg Asn Ile Ala Met Ser Leu Pro Gly
 245 250 255
 Phe Glu Gln Ser Met Phe Met Ala Ala Gln Pro Asp His Asn Tyr Ile
 260 265 270
 Ala Thr Ala Pro His Tyr Cys His His Tyr Asn Gln Leu His Gln Arg
 275 280 285
 Asn Leu Val Cys Leu Pro Ile Pro Ile Asp Glu Ala Gln Ala Glu Lys
 290 295 300
 Leu Thr Val Pro Phe Thr Leu Ile Trp His Lys Arg Asn Ser His Asn
 305 310 315 320
 Pro Lys Ile Leu Trp Leu Arg Glu Thr Ile Lys Ala Leu Tyr Thr Ala
 325 330 335
 Pro Asp Gln Val Phe Ala
 340

<210> 8377
 <211> 96
 <212> PRT
 <213> Enterobacter cloacae

<400> 8377
 Pro Cys Ser Leu Gly Ser Val Gly Lys Ile Met Ala Pro Pro Leu Ser
 1 5 10 15
 Pro Gly Ser Arg Val Leu Ile Ala Leu Ile Arg Val Tyr Gln Arg Leu
 20 25 30
 Ile Ser Pro Leu Leu Gly Pro His Cys Arg Phe Thr Pro Thr Cys Ser
 35 40 45
 Ser Tyr Gly Ile Glu Ala Leu Arg Arg Phe Gly Val Ile Lys Gly Ser
 50 55 60
 Trp Leu Thr Val Lys Arg Val Leu Lys Cys His Pro Leu His Pro Gly
 65 70 75 80
 Gly Asp Asp Pro Val Pro Pro Gly Pro Phe Asp Thr Arg Glu His
 85 90 95

<210> 8378
 <211> 247
 <212> PRT
 <213> Enterobacter cloacae

<400> 8378
 Phe Cys Leu Tyr Gly Asn Asp Cys Val Pro Val Asn Cys Arg Thr Lys
 1 5 10 15
 Thr Leu Asn Leu Leu Lys Gly Lys Gly Met Ser Gly Ile Glu Ala Val
 20 25 30
 Phe Phe Asp Cys Asp Gly Thr Leu Val Asp Ser Glu Val Ile Cys Ser
 35 40 45
 Arg Ala Tyr Val Ala Met Phe Gln Glu Phe Gly Ile Thr Leu Asp Leu
 50 55 60
 Glu Glu Val Phe Lys Arg Phe Lys Gly Val Lys Leu Tyr Glu Ile Ile
 65 70 75 80
 Asp Ile Ile Asn Glu Glu His Gly Val Asp Leu Ala Lys Ala Asp Leu
 85 90 95
 Glu Pro Val Tyr Arg Ala Glu Val Ala Arg Leu Phe Asp Ala Glu Leu
 100 105 110
 Glu Val Ile Ala Gly Ala Asn Thr Leu Leu Asp Ala Met Thr Val Pro
 115 120 125
 Ile Cys Val Val Ser Asn Gly Pro Val Ser Lys Met Gln His Ser Leu

130		135		140
Gly Lys Leu Asn Met	Leu His His Phe Pro Glu Lys Leu Phe Ser Gly			
145	150	155		160
Tyr Asp Ile Gln Arg Trp	Lys Pro Asp Pro Ala Leu Met Phe His Ala			
	165	170		175
Ala Lys Ala Met Asn Val Asn Val Glu Asn Cys Ile Leu Val Asp Asp				
	180	185		190
Ser Ser Ala Gly Ala Gln Ser Gly Ile Asp Ala Gly Met Glu Val Phe				
	195	200		205
Tyr Phe Cys Ala Asp Pro His Asn Lys Pro Ile Asp His Pro Lys Val				
	210	215		220
Thr Thr Phe Thr Asp Leu Ala Gln Leu Pro Ala Leu Trp Lys Ala Arg				
225	230	235		240
Gly Trp Asp Ile Thr Arg				
	245			

<210> 8379

<211> 198

<212> PRT

<213> Enterobacter cloacae

<400> 8379

Ile Met Glu Ser Phe Met Lys Leu Asn Val Ile Ala Thr Ser Leu Val	
1	5
Leu Ser Ser Val Leu Phe Ser Gly Ala Thr Leu Ala Ala Asp Gly Thr	
	20
Val His Phe Arg Gly Glu Val Ile Asp Ser Thr Cys Thr Val Thr Thr	
	35
Asp Thr Ser Asn Gln Thr Val Asn Ile Gly Arg Val Ser Val Lys Thr	
	50
Phe Ala Gly Ile Asp Ser Thr Ala Ser Val Lys Asp Phe His Ile Arg	
65	70
Leu Glu Gly Cys Pro Ala Thr Tyr Thr Gln Ala Ala Val Arg Phe Asp	
	85
Gly Thr Glu Asp Lys Asp Thr Ile Gly Lys Gly Tyr Leu Ser Ile Gly	
	100
Thr Pro Val Asn Glu Asp Gly Thr Asp Gly Glu Phe Thr Gly Ser Gly	
	115
Asp Ala Ile Ala Ala Thr Gly Val Ala Ile Lys Leu Phe Asn Leu Ser	
	130
Asp Asp Thr Ala Ile Pro Leu Tyr Asn Asn Ser Lys Tyr Val Ala Ile	
145	150
Ala Asp Gly Lys Ala Asp Met Gly Phe Lys Ala Lys Phe Val Gln Thr	
	165
Leu Ala Thr Val Thr Pro Gly Thr Ala Asn Ala Asp Ser Gln Phe Thr	
	180
Ile Glu Tyr Leu Lys	
	195

<210> 8380

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 8380

Phe Met Ala Ala Thr Lys Pro Ala Phe Asn Pro Pro Gly Lys Lys Gly	
1	5
Asp Met Ile Phe Ser Ala Leu Val Lys Leu Ala Ala Leu Ile Val Leu	
	20
Leu Leu Leu Gly Gly Ile Ile Val Ser Leu Ile Phe Ser Ser Trp Pro	
	35
	40
	45

Ser	Ile	Gln	Lys	Phe	Gly	Phe	Ala	Phe	Leu	Trp	Thr	Lys	Glu	Trp	Asp
50						55					60				
Ala	Pro	Asn	Asp	Ile	Tyr	Gly	Ala	Leu	Val	Pro	Ile	Tyr	Gly	Thr	Leu
65					70					75					80
Val	Thr	Ser	Phe	Ile	Ala	Leu	Leu	Ile	Ala	Val	Pro	Val	Ser	Phe	Gly
				85					90					95	
Ile	Ala	Leu	Phe	Leu	Thr	Glu	Leu	Ala	Pro	Gly	Trp	Leu	Arg	Arg	Pro
			100					105					110		
Leu	Gly	Ile	Ala	Ile	Glu	Leu	Leu	Ala	Ala	Ile	Pro	Ser	Ile	Val	Tyr
		115						120				125			
Gly	Met	Trp	Gly	Leu	Phe	Ile	Phe	Ala	Pro	Leu	Phe	Ala	Thr	Tyr	Phe
130						135					140				
Gln	Glu	Pro	Val	Gly	Asn	Val	Leu	Ser	Ala	Val	Pro	Phe	Val	Gly	Ala
145					150					155					160
Leu	Phe	Ser	Gly	Pro	Ala	Phe	Gly	Ile	Gly	Ile	Leu	Ala	Ala	Gly	Val
				165					170					175	
Ile	Leu	Ala	Ile	Met	Ile	Ile	Pro	Tyr	Ile	Ala	Ala	Val	Met	Arg	Asp
			180					185					190		
Val	Phe	Glu	Gln	Thr	Pro	Val	Met	Met	Lys	Glu	Ser	Ala	Tyr	Gly	Ile
		195					200					205			
Gly	Cys	Thr	Thr	Trp	Glu	Val	Ile	Trp	Arg	Ile	Val	Leu	Pro	Phe	Thr
210						215					220				
Lys	Asn	Gly	Val	Ile	Gly	Gly	Ile	Met	Leu	Gly	Leu	Gly	Arg	Ala	Leu
225					230					235					240
Gly	Glu	Thr	Met	Ala	Val	Thr	Phe	Ile	Ile	Gly	Asn	Thr	Tyr	Gln	Leu
				245					250					255	
Asp	Ser	Ala	Ser	Leu	Tyr	Met	Pro	Gly	Asn	Ser	Ile	Thr	Ser	Ala	Leu
			260					265					270		
Ala	Asn	Glu	Phe	Ala	Glu	Ala	Glu	Ser	Gly	Leu	His	Val	Ala	Ala	Leu
		275					280					285			
Met	Glu	Leu	Gly	Leu	Ile	Leu	Phe	Val	Ile	Thr	Phe	Ile	Val	Leu	Ala
		290				295					300				
Ile	Ser	Lys	Leu	Met	Ile	Met	Arg	Leu	Ala	Lys	Asn	Glu	Gly	Ala	Arg
305					310					315					320

<210> 8381

<211> 277

<212> PRT

<213> Enterobacter cloacae

<400> 8381

Val	Gln	Arg	Tyr	Gly	Cys	Ala	Val	His	Pro	Ser	Gly	Glu	Glu	Thr	Asn
1				5				10						15	
Arg	Arg	Leu	Tyr	Tyr	Trp	Pro	Leu	Arg	Leu	Ile	Cys	Leu	Ser	Ala	Cys
			20					25					30		
Gly	Glu	Thr	Met	Asp	Asn	Leu	Asn	Leu	Asn	Lys	His	Ile	Ser	Gly	Gln
		35					40					45			
Phe	Asn	Ala	Glu	Leu	Glu	Ser	Ile	Arg	Thr	Gln	Val	Met	Thr	Met	Gly
	50					55					60				
Gly	Met	Val	Glu	Gln	Gln	Leu	Ser	Asp	Ala	Ile	Thr	Ala	Met	His	Asn
65				70					75					80	
Gln	Asp	Ser	Glu	Leu	Ala	Lys	Arg	Val	Ile	Glu	Gly	Asp	His	Asn	Val
				85				90					95		
Asn	Met	Met	Glu	Val	Ala	Ile	Asp	Glu	Ala	Cys	Val	Arg	Ile	Ile	Ala
			100					105					110		
Lys	Arg	Gln	Pro	Thr	Ala	Ser	Asp	Leu	Arg	Leu	Val	Met	Ala	Ile	Ile
		115					120					125			
Lys	Thr	Ile	Ala	Glu	Leu	Glu	Arg	Ile	Gly	Asp	Val	Ala	Asp	Lys	Ile
	130					135					140				

Cys Arg Thr Ala Leu Glu Lys Phe Ser Gln Gln His Gln Pro Leu Leu
 145 150 155 160
 Val Ser Leu Glu Ser Leu Gly Arg His Thr Val Gln Met Leu His Asp
 165 170 175
 Val Leu Asp Ala Phe Ala Arg Met Asp Leu Asp Glu Ala Val Arg Ile
 180 185 190
 Tyr Arg Glu Asp Lys Lys Val Asp Gln Glu Tyr Glu Gly Ile Val Arg
 195 200 205
 Gln Leu Met Thr Tyr Met Met Glu Asp Ser Arg Thr Ile Pro Ser Val
 210 215 220
 Leu Thr Ala Leu Phe Cys Ala Arg Ser Ile Glu Arg Ile Gly Asp Arg
 225 230 235 240
 Cys Gln Asn Ile Cys Glu Tyr Ile Phe Tyr Phe Val Lys Gly Gln Asp
 245 250 255
 Phe Arg His Val Gly Gly Asp Glu Leu Asp Lys Leu Leu Ala Gly Lys
 260 265 270
 Asp Pro Lys Glu
 275

<210> 8382

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 8382

Gly Ala Met Asn Leu Pro Phe Ala Trp Val Lys Thr Ser Met Glu Arg
 1 5 10 15
 Gly Val Phe Ile Leu Ile Leu Phe Tyr Ser Ile Lys Met Lys Gly Val
 20 25 30
 Ser Gly Phe Val Lys Glu Leu Thr Leu Gln Pro Phe Asn His Trp Ala
 35 40 45
 Phe Ile Pro Val Asn Leu Ile Leu Glu Gly Val Ser Leu Leu Ser Lys
 50 55 60
 Pro Val Ser Leu Gly Leu Arg Leu Phe Gly Asn Met Tyr Ala Gly Glu
 65 70 75 80
 Leu Ile Phe Ile Leu Ile Ala Gly Leu Leu Pro Trp Trp Ser Gln Trp
 85 90 95
 Ile Leu Asn Val Pro Trp Ala Ile Phe His Ile Leu Ile Ile Thr Leu
 100 105 110
 Gln Ala Phe Ile Phe Met Val Leu Thr Ile Val Tyr Leu Ser Met Ala
 115 120 125
 Ser Glu Glu His
 130

<210> 8383

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 8383

Thr Val Arg Arg Glu Gly Leu Met Ser Glu Phe Val Thr Val Ala Arg
 1 5 10 15
 Pro Tyr Ala Lys Ala Ala Phe Asp Phe Ala Val Glu His Gln Asn Val
 20 25 30
 Asp Arg Trp Gln Asn Met Leu Ala Phe Ala Ala Glu Val Thr Lys Asn
 35 40 45
 Glu Gln Met Ala Glu Leu Leu Ser Gly Ala Leu Ala Pro Glu Thr Leu
 50 55 60
 Ala Ala Ser Phe Ile Ala Val Cys Gly Glu Gln Leu Asp Ala Asn Gly
 65 70 75 80
 Gln Asn Leu Ile Lys Val Met Ala Glu Asn Gly Arg Leu Arg Val Leu

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<210> 8384
<211> 518
<212> PRT
<213> Enterobacter cloacae
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<400>	8384														
Gly 1	Asp	Trp	Ser	Met 5	Gln	Leu	Asn	Ser	Thr 10	Glu	Ile	Ser	Glu	Leu 15	Ile
Lys	Gln	Arg	Ile 20	Ala	Gln	Phe	Asn 25	Val	Val	Ser	Glu	Ala	His 30	Asn	Glu
Gly	Thr	Ile 35	Val	Ser	Val	Ser	Asp 40	Gly	Val	Ile	Arg	Ile 45	His	Gly	Leu
Ala	Asp 50	Cys	Met	Gln	Gly	Glu 55	Met	Ile	Ser	Leu	Pro 60	Gly	Asn	Arg	Tyr
Ala 65	Ile	Ala	Leu	Asn 70	Leu	Glu	Arg	Asp	Ser	Val 75	Gly	Ala	Val	Val	Met 80
Gly	Pro	Tyr	Ala	Asp 85	Leu	Ala	Glu	Gly	Met 90	Lys	Val	Lys	Cys 95	Thr	Gly
Arg	Ile	Leu	Glu 100	Val	Pro	Val	Gly	Arg 105	Gly	Leu	Leu	Gly	Arg 110	Val	Val
Asn	Thr	Leu 115	Gly	Ala	Pro	Ile	Asp 120	Gly	Lys	Gly	Pro	Val 125	Glu	His	Asp
Gly	Phe 130	Ser	Pro	Ile	Glu	Val 135	Ile	Ala	Pro	Gly	Val 140	Ile	Asp	Arg	Gln
Ser 145	Val	Asp	Gln	Pro	Val 150	Gln	Thr	Gly	Tyr	Lys 155	Ser	Val	Asp	Ala	Met 160
Ile	Pro	Ile	Gly	Arg 165	Gly	Gln	Arg	Glu	Leu 170	Ile	Ile	Gly	Asp	Arg 175	Gln
Thr	Gly	Lys	Thr 180	Ala	Met	Ala	Ile	Asp 185	Ala	Ile	Ile	Asn	Gln 190	Arg	Asp
Ser	Gly	Ile 195	Lys	Cys	Val	Tyr	Val 200	Ala	Ile	Gly	Gln	Lys 205	Ala	Ser	Thr
Ile	Ser 210	Asn	Val	Val	Arg	Lys 215	Leu	Glu	Glu	His	Gly 220	Ala	Leu	Ser	Asn
Thr 225	Ile	Val	Val	Val	Ala 230	Thr	Ala	Ser	Glu	Ser 235	Ala	Ala	Leu	Gln	Tyr 240
Leu	Ala	Pro	Tyr	Ala 245	Gly	Cys	Ala	Met	Gly 250	Glu	Tyr	Phe	Arg	Asp	Arg
Gly	Glu	Asp	Ala 260	Leu	Ile	Val	Tyr	Asp 265	Asp	Leu	Ser	Lys	Gln 270	Ala	Val
Ala	Tyr	Arg	Gln 275	Val	Ser	Leu	Leu 280	Leu	Arg	Arg	Pro	Pro 285	Gly	Arg	Glu
Ala	Phe 290	Pro	Gly	Asp	Val	Phe 295	Tyr	Leu	His	Ser	Arg 300	Leu	Leu	Glu	Arg
Ala 305	Ser	Arg	Val	Asn	Ala 310	Glu	Tyr	Val	Glu	Asn 315	Phe	Thr	Lys	Gly	Glu
Val	Lys	Gly	Lys	Thr	Gly	Ser	Leu	Thr	Ala	Leu	Pro	Ile	Ile	Glu	Thr

325 330 335
 Gln Ala Gly Asp Val Ser Ala Phe Val Pro Thr Asn Val Ile Ser Ile
 340 345 350
 Thr Asp Gly Gln Ile Phe Leu Glu Thr Asn Leu Phe Asn Ser Gly Ile
 355 360 365
 Arg Pro Ala Val Asn Pro Gly Ile Ser Val Ser Arg Val Gly Gly Ala
 370 375 380
 Ala Gln Thr Lys Ile Ile Lys Lys Leu Ser Gly Gly Ile Arg Thr Ala
 385 390 395 400
 Leu Ala Gln Tyr Arg Glu Leu Ala Ala Phe Ser Gln Phe Ala Ser Asp
 405 410 415
 Leu Asp Glu Ala Thr Arg Lys Gln Leu Ser His Gly Gln Lys Val Thr
 420 425 430
 Glu Leu Leu Lys Gln Lys Gln Tyr Ala Pro Met Ser Val Ala Gln Gln
 435 440 445
 Gly Leu Val Leu Phe Ala Ala Glu Arg Gly Tyr Leu Glu Asp Val Glu
 450 455 460
 Leu Ala Lys Ile Gly Ser Phe Glu Ala Ala Leu Leu Ala Tyr Val Asp
 465 470 475 480
 Arg Asp His Ala Pro Leu Met Gln Glu Ile Asn Gln Thr Gly Gly Tyr
 485 490 495
 Asn Asp Glu Ile Glu Gly Lys Leu Lys Ala Ile Leu Asp Ser Phe Lys
 500 505 510
 Ala Thr Gln Ser Trp
 515

<210> 8385

<211> 305

<212> PRT

<213> Enterobacter cloacae

<400> 8385

Ser Ser Gly Gly Leu Ser Gln Asp Lys Pro Ser Gly Ile Glu Glu Lys
 1 5 10 15
 Leu Met Ala Gly Ala Lys Glu Ile Arg Ser Lys Ile Ala Ser Val Gln
 20 25 30
 Asn Thr Gln Lys Ile Thr Lys Ala Met Glu Met Val Ala Ala Ser Lys
 35 40 45
 Met Arg Lys Ser Gln Asp Arg Met Ala Ala Ser Arg Pro Tyr Ala Glu
 50 55 60
 Thr Met Arg Lys Val Ile Gly His Leu Ala Asn Gly Asn Leu Glu Tyr
 65 70 75 80
 Lys His Pro Tyr Leu Glu Glu Arg Asp Val Lys Arg Val Gly Tyr Leu
 85 90 95
 Val Val Ser Thr Asp Arg Gly Leu Cys Gly Gly Leu Asn Ile Asn Leu
 100 105 110
 Phe Lys Lys Leu Leu Ala Asp Met Lys Gly Trp Ser Asp Lys Gly Val
 115 120 125
 Gln Cys Asp Leu Ala Leu Ile Gly Ser Lys Gly Val Ser Phe Phe Asn
 130 135 140
 Ser Val Gly Gly Asn Ile Val Ala Gln Val Thr Gly Met Gly Asp Asn
 145 150 155 160
 Pro Ser Leu Ser Glu Leu Ile Gly Pro Val Lys Val Met Leu Gln Ala
 165 170 175
 Tyr Asp Glu Gly Arg Leu Asp Arg Leu Tyr Val Val Ser Asn Lys Phe
 180 185 190
 Ile Asn Thr Met Ser Gln Val Pro Thr Leu Thr Gln Met Leu Pro Leu
 195 200 205
 Pro Ala Ser Glu Asp Asp Glu Leu Lys Gln Lys Ala Trp Asp Tyr Leu
 210 215 220
 Tyr Glu Pro Asp Pro Lys Pro Leu Leu Asp Thr Leu Leu Arg Arg Tyr

225					230					235				240	
Val	Glu	Ser	Gln	Val	Tyr	Gln	Gly	Val	Val	Glu	Asn	Leu	Ala	Ser	Glu
				245					250					255	
Gln	Ala	Ala	Arg	Met	Val	Ala	Met	Lys	Ala	Ala	Thr	Asp	Asn	Gly	Gly
			260					265					270		
Ser	Leu	Ile	Lys	Glu	Leu	Gln	Leu	Val	Tyr	Asn	Lys	Ala	Arg	Gln	Ala
		275					280					285			
Ser	Ile	Thr	Gln	Glu	Leu	Thr	Glu	Ile	Val	Ser	Gly	Ala	Ala	Ala	Val
	290					295					300				

305

<210> 8386

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 8386

Ser	Glu	Gly	Asp	Met	Ala	Met	Thr	Tyr	His	Leu	Asp	Val	Val	Ser	Ala
1				5					10					15	
Glu	Gln	Gln	Met	Phe	Ser	Gly	Leu	Val	Glu	Lys	Ile	Gln	Val	Thr	Gly
			20					25					30		
Ser	Glu	Gly	Glu	Leu	Gly	Ile	Phe	Pro	Gly	His	Ala	Pro	Leu	Leu	Thr
		35				40						45			
Ala	Ile	Lys	Pro	Gly	Met	Ile	Arg	Ile	Val	Lys	Gln	Phe	Gly	His	Glu
	50					55					60				
Glu	Phe	Ile	Tyr	Leu	Ser	Gly	Gly	Ile	Leu	Glu	Val	Gln	Pro	Gly	Ser
65					70				75					80	
Val	Thr	Val	Leu	Ala	Asp	Thr	Ala	Ile	Arg	Gly	Gln	Asp	Leu	Asp	Glu
				85					90					95	
Ala	Arg	Ala	Leu	Glu	Ser	Lys	Arg	Lys	Ala	Glu	Glu	His	Ile	Asn	Ser
			100					105					110		
Ser	His	Gly	Asp	Val	Asp	Tyr	Ala	Gln	Ala	Ser	Ala	Glu	Leu	Ala	Lys
		115				120						125			
Ala	Ile	Ala	Lys	Leu	Arg	Val	Ile	Glu	Leu	Thr	Lys	Lys	Ala	Met	
	130					135					140				

<210> 8387

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 8387

Asn	Phe	Lys	His	Gln	Thr	Phe	Leu	Leu	Leu	Thr	Gln	Thr	Thr	Val	Arg
1				5					10					15	
Met	Arg	Met	Leu	Asn	Ser	Ala	Met	Ser	Val	Val	Ile	Leu	Ala	Ala	Gly
			20					25					30		
Lys	Gly	Thr	Arg	Met	Tyr	Ser	Asp	Leu	Pro	Lys	Val	Leu	His	Thr	Leu
		35					40					45			
Ala	Gly	Lys	Pro	Met	Val	Gln	His	Val	Ile	Asp	Ala	Ala	Asn	Glu	Leu
	50					55				60					
Gly	Ala	Ser	Gln	Val	His	Leu	Val	Tyr	Gly	His	Gly	Gly	Asp	Leu	Leu
65					70				75					80	
Lys	Lys	Thr	Leu	Arg	Asp	Asp	Asn	Leu	Asn	Trp	Val	Leu	Gln	Ala	Glu
				85				90						95	
Gln	Leu	Gly	Thr	Gly	His	Ala	Met	Gln	Gln	Ala	Ala	Pro	Phe	Phe	Ala
			100					105					110		
Asp	Asp	Glu	Asp	Ile	Leu	Met	Leu	Tyr	Gly	Asp	Val	Pro	Leu	Ile	Ser
		115				120						125			
Val	Glu	Thr	Leu	Thr	Arg	Leu	Arg	Glu	Ala	Lys	Pro	Gln	Gly	Gly	Ile
	130					135					140				

Gly Leu Leu Thr Val Val Leu Asp Asp Pro Thr Gly Tyr Gly Arg Ile
 145 150 155 160
 Thr Arg Glu Asn Gly Asn Val Thr Gly Ile Val Glu His Lys Asp Ala
 165 170 175
 Thr Asp Glu Gln Arg Gln Ile Gln Glu Ile Asn Thr Gly Ile Leu Ile
 180 185 190
 Ala Asn Gly Ala Asp Met Lys Arg Trp Leu Ser Arg Leu Asn Asn Asn
 195 200 205
 Asn Ala Gln Gly Glu Tyr Tyr Ile Thr Asp Ile Ile Ala Met Ala Tyr
 210 215 220
 Gln Glu Gly Arg Glu Ile Ala Ala Val His Pro Ala Arg Ile Ser Glu
 225 230 235 240
 Thr Asp Gly Val Asn Asn Arg Leu Gln Leu Ser Arg Leu Glu Arg Ile
 245 250 255
 Tyr Gln Ser Glu Gln Ala Glu Lys Leu Leu Leu Ala Gly Val Met Leu
 260 265 270
 Arg Asp Pro Ala Arg Phe Asp Leu Arg Gly Thr Leu Thr His Gly Arg
 275 280 285
 Asp Val Glu Ile Asp Thr Asn Val Ile Leu Glu Gly Asn Val Thr Leu
 290 295 300
 Gly Asn Arg Val Lys Ile Gly Thr Gly Cys Val Ile Lys Asn Ser Ala
 305 310 315 320
 Ile Gly Asp Asp Cys Glu Ile Ser Pro Tyr Ser Val Val Glu Asp Ala
 325 330 335
 His Leu Glu Ala Ala Cys Thr Ile Gly Pro Phe Ala Arg Leu Arg Pro
 340 345 350
 Gly Ala Glu Leu Leu Glu Gly Ala His Val Gly Asn Phe Val Glu Met
 355 360 365
 Lys Lys Ala Arg Leu Gly Lys Gly Ser Lys Ala Gly His Leu Thr Tyr
 370 375 380
 Leu Gly Asp Ala Glu Ile Gly Asp Asn Val Asn Ile Gly Ala Gly Thr
 385 390 395 400
 Ile Thr Cys Asn Tyr Asp Gly Ala Asn Lys Phe Lys Thr Ile Ile Gly
 405 410 415
 Asp Asp Val Phe Val Gly Ser Asp Thr Gln Leu Val Ala Pro Val Thr
 420 425 430
 Val Gly Lys Gly Val Thr Ile Ala Ala Gly Thr Thr Val Thr Arg Asp
 435 440 445
 Val Ala Glu Asn Glu Leu Val Leu Ser Arg Val Pro Gln Val Ser Lys
 450 455 460
 Gln Gly Trp Lys Arg Pro Val Lys Gln Lys
 465 470 475

<210> 8388

<211> 615

<212> PRT

<213> Enterobacter cloacae

<400> 8388

Ser Gly Asn Ile Thr Met Cys Gly Ile Val Gly Ala Val Ala Gln Arg
 1 5 10 15
 Asp Ile Ala Glu Ile Leu Leu Glu Gly Leu Arg Arg Leu Glu Tyr Arg
 20 25 30
 Gly Tyr Asp Ser Ala Gly Leu Ala Val Val Asp Ala Glu Gly His Met
 35 40 45
 Thr Arg Leu Arg Arg Leu Gly Lys Val Gln Met Leu Ala Gln Ala Ala
 50 55 60
 Glu Glu His Pro Leu His Gly Gly Thr Gly Ile Ala His Thr Arg Trp
 65 70 75 80
 Ala Thr His Gly Glu Pro Ser Glu Gly Asn Ala His Pro His Val Ser
 85 90 95

Glu	His	Ile	Val	Val	Val	His	Asn	Gly	Ile	Ile	Glu	Asn	His	Glu	Pro
			100					105					110		
Leu	Arg	Glu	Glu	Leu	Lys	Ala	Arg	Gly	Tyr	Thr	Phe	Val	Ser	Glu	Thr
		115					120					125			
Asp	Thr	Glu	Val	Ile	Ala	His	Leu	Val	His	Trp	Glu	Leu	Ala	Lys	Gly
	130					135					140				
Gly	Thr	Leu	Arg	Asp	Ala	Val	Leu	Arg	Ala	Ile	Pro	Gln	Leu	Arg	Gly
145					150					155					160
Ala	Tyr	Gly	Thr	Val	Ile	Met	Asp	Ser	Arg	Asp	Pro	Ser	Thr	Leu	Leu
				165					170					175	
Ala	Ala	Arg	Ser	Gly	Ser	Pro	Met	Val	Ile	Gly	Leu	Gly	Met	Gly	Glu
			180					185					190		
Asn	Phe	Ile	Ala	Ser	Asp	Gln	Leu	Ala	Leu	Leu	Pro	Val	Thr	Arg	Arg
		195					200					205			
Phe	Ile	Phe	Leu	Glu	Glu	Gly	Asp	Ile	Ala	Glu	Val	Thr	Arg	Arg	Ser
	210					215					220				
Val	Thr	Val	Phe	Asp	Thr	Lys	Gly	Glu	Gln	Val	Lys	Arg	Gln	Glu	Ile
225					230					235					240
Glu	Ser	Asn	Leu	Gln	Tyr	Asp	Ala	Gly	Asp	Lys	Gly	Ala	Tyr	Arg	His
				245					250					255	
Tyr	Met	Gln	Lys	Glu	Ile	Tyr	Glu	Gln	Pro	Asn	Ala	Ile	Lys	Asn	Thr
		260						265					270		
Leu	Thr	Gly	Arg	Ile	Ser	His	Gly	Glu	Val	Asp	Leu	Ser	Glu	Leu	Gly
		275					280					285			
Ala	Asn	Ala	Asn	Glu	Leu	Leu	Ser	Lys	Val	Glu	His	Ile	Gln	Ile	Val
	290					295					300				
Ala	Cys	Gly	Thr	Ser	Tyr	Asn	Ser	Gly	Met	Val	Ser	Arg	Tyr	Trp	Phe
305					310					315					320
Glu	Ser	Leu	Ala	Gly	Val	Pro	Cys	Asp	Val	Glu	Ile	Ala	Ser	Glu	Phe
				325					330					335	
Arg	Tyr	Arg	Lys	Ser	Ala	Val	Arg	Arg	Asn	Ser	Leu	Met	Ile	Thr	Leu
			340					345					350		
Ser	Gln	Ser	Gly	Glu	Thr	Ala	Asp	Thr	Leu	Ala	Ala	Leu	Arg	Leu	Ser
		355					360					365			
Lys	Glu	Leu	Gly	Tyr	Leu	Gly	Ser	Leu	Ala	Ile	Cys	Asn	Val	Pro	Gly
	370					375					380				
Ser	Ser	Leu	Val	Arg	Glu	Ser	Asp	Leu	Ala	Leu	Met	Thr	Lys	Ala	Gly
385					390					395					400
Thr	Glu	Ile	Gly	Val	Ala	Ser	Thr	Lys	Ala	Phe	Thr	Thr	Gln	Leu	Thr
				405					410					415	
Val	Leu	Leu	Met	Leu	Val	Ala	Lys	Leu	Ala	Arg	Leu	Lys	Gly	Gln	Asp
			420					425					430		
Ala	Ser	Val	Glu	His	Asp	Ile	Val	His	Gly	Leu	Gln	Ala	Leu	Pro	Ser
		435					440					445			
Arg	Ile	Glu	Gln	Met	Leu	Ser	Gln	Asp	Lys	Arg	Ile	Glu	Ala	Leu	Ala
	450					455					460				
Glu	Asp	Phe	Ser	Asp	Lys	His	His	Ala	Leu	Phe	Leu	Gly	Arg	Gly	Asp
465					470					475					480
Gln	Tyr	Pro	Ile	Ala	Leu	Glu	Gly	Ala	Leu	Lys	Leu	Lys	Glu	Ile	Ser
				485					490					495	
Tyr	Ile	His	Ala	Glu	Ala	Tyr	Ala	Ala	Gly	Glu	Leu	Lys	His	Gly	Pro
			500					505					510		
Leu	Ala	Leu	Ile	Asp	Ala	Asp	Met	Pro	Val	Ile	Val	Val	Ala	Pro	Asn
		515					520					525			
Asn	Glu	Leu	Leu	Glu	Lys	Leu	Lys	Ser	Asn	Ile	Glu	Glu	Val	Arg	Ala
	530					535					540				
Arg	Gly	Gly	Val	Leu	Tyr	Val	Phe	Ala	Asp	Lys	Asp	Ala	Gly	Phe	Ala
545					550					555					560
Ser	Ser	Asp	Asn	Met	His	Ile	Ile	Glu	Met	Pro	His	Val	Glu	Glu	Val
				565					570					575	
Ile	Ala	Pro	Ile	Phe	Tyr	Thr	Val	Pro	Leu	Gln	Leu	Leu	Ala	Tyr	His

<400> 8390															
Asp	Ser	Asp	Glu	Phe	Ser	Leu	Leu	Val	Arg	Lys	Leu	Met	Met	Ser	Gln
1				5					10					15	
Gln	His	Thr	Thr	Gln	Thr	Ser	Gly	Gln	Gly	Leu	Leu	Glu	Arg	Val	Phe
			20					25					30		
Lys	Leu	Arg	Glu	His	Gly	Thr	Thr	Ala	Arg	Thr	Glu	Val	Ile	Ala	Gly
		35					40					45			
Phe	Thr	Thr	Phe	Leu	Thr	Met	Val	Tyr	Ile	Val	Phe	Val	Asn	Pro	Gln
	50					55					60				

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Ile Leu Gly Val Ala Gly Met Asp Thr Ser Ala Val Phe Val Thr Thr
65      70      75      80
Cys Leu Ile Ala Ala Leu Gly Ser Ile Leu Met Gly Val Phe Ala Asn
      85      90
Leu Pro Val Ala Leu Ala Pro Ala Met Gly Leu Asn Ala Phe Phe Ala
      100      105      110
Phe Val Val Val Gln Ala Met Gly Leu Pro Trp Gln Val Gly Met Gly
      115      120      125
Ala Ile Phe Trp Gly Ala Val Gly Leu Leu Leu Leu Thr Ile Phe Arg
      130      135      140
Val Arg Tyr Trp Met Ile Ala Asn Ile Pro Val Ser Leu Arg Val Gly
145      150      155      160
Ile Thr Ser Gly Ile Gly Leu Phe Ile Gly Met Met Gly Leu Lys Asn
      165      170      175
Ala Gly Val Ile Val Ala Asn Pro Glu Thr Leu Val Ser Ile Gly Asn
      180      185      190
Leu Thr Ser His Ser Val Leu Leu Gly Val Leu Gly Phe Phe Ile Ile
      195      200      205
Ala Ile Leu Ala Ser Arg Asn Ile His Ala Ala Val Leu Val Ser Ile
      210      215      220
Ile Val Thr Thr Leu Leu Gly Trp Met Leu Gly Asp Val His Tyr Asn
225      230      235      240
Gly Ile Val Ser Ala Pro Pro Ser Val Ser Thr Val Ile Gly His Val
      245      250      255
Asp Leu Ala Gly Ser Leu Asn Leu Gly Leu Ala Gly Val Ile Phe Ser
      260      265      270
Phe Met Leu Val Asn Leu Phe Asp Ser Ser Gly Thr Leu Ile Gly Val
      275      280      285
Thr Asp Lys Ala Gly Leu Ala Asp Glu Lys Gly Lys Phe Pro Arg Met
      290      295      300
Lys Gln Ala Leu Tyr Val Asp Ser Ile Ser Ser Val Ala Gly Ser Phe
305      310      315      320
Ile Gly Thr Ser Ser Val Thr Ala Tyr Ile Glu Ser Ser Ser Gly Val
      325      330      335
Ser Val Gly Gly Arg Thr Gly Leu Thr Ala Val Val Val Gly Leu Leu
      340      345      350
Phe Leu Leu Val Ile Phe Leu Ser Pro Leu Ala Gly Met Val Pro Pro
      355      360      365
Tyr Ala Ala Ala Gly Ala Leu Ile Tyr Val Gly Val Leu Met Thr Ser
      370      375      380
Ser Leu Ala Arg Val Lys Trp Glu Asp Leu Thr Glu Ala Val Pro Ala
385      390      395      400
Phe Ile Thr Ala Val Met Met Pro Phe Ser Phe Ser Ile Thr Glu Gly
      405      410      415
Ile Ala Leu Gly Phe Ile Ser Tyr Cys Val Met Lys Ile Gly Thr Gly
      420      425      430
Arg Phe Arg Glu Leu Ser Pro Cys Val Ile Ile Val Ala Leu Leu Phe
      435      440      445
Val Leu Lys Ile Val Phe Ile Asp Ser His
      450      455

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<210> 8391

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 8391

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Pro Phe Thr Ser Leu Met Pro Ser Val Ser Pro Val Thr Ser Ala Leu
1      5      10      15
Leu Arg Thr Thr Val Ile Gly Ser Leu Ala Gly Arg Arg Ala Ile Lys
      20      25      30

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Ser Gly Gln Ile Ser Ala Gly Ser Thr Ala Ser Val Val Val Pro Ser
   35         40         45
Thr Ile Asn Ser Thr Arg Ser Ala Cys Ser Ile Ser Cys Gln Ala Arg
   50         55         60
Ser Ile Pro Ile Arg Ser Thr Ser Ser Leu Ala Ser Arg Arg Pro Ala
   65         70         75         80
Val Ser Met Met Cys Ser Gly Ile Pro Ser Met Trp Ile Cys Ser Arg
           85         90         95
Ser Thr Ser Arg Val Val Pro Ala Met Ser Val Thr Ile Ala Ala Ser
           100        105        110
Arg Pro Ala Arg Ala Phe Ser Arg Leu Asp Phe Pro Ala Leu Gly Arg
           115        120        125
Pro Ala Met Thr Thr Phe Met Pro Ser Arg Ser Arg Leu Pro Trp Arg
           130        135        140
Ala Ser Ala Arg Thr Ala Ser Arg Ser Phe Ile Thr Trp Leu Ser
   145         150         155         160

```

<210> 8392

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 8392

```

Asn Lys Leu Glu Thr Val Met Glu Asn Leu Asn Met Asp Leu Leu Tyr
  1           5           10           15
Met Ala Ala Ala Val Met Met Gly Leu Ala Ala Ile Gly Ala Ala Ile
           20           25           30
Gly Ile Gly Ile Leu Gly Gly Lys Phe Leu Glu Gly Ala Ala Arg Gln
           35           40           45
Pro Asp Leu Ile Pro Leu Leu Arg Thr Gln Phe Phe Ile Val Met Gly
           50           55           60
Leu Val Asp Ala Ile Pro Met Ile Ala Val Gly Leu Gly Leu Tyr Val
           65           70           75           80
Met Phe Ala Val Ala
           85

```

<210> 8393

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 8393

```

Asn Pro Lys Pro Gln Lys Phe Lys Arg Tyr Cys Ala Val Asn Met Asn
  1           5           10           15
Ala Thr Ile Leu Gly Gln Ala Ile Ala Phe Ile Leu Phe Val Trp Phe
           20           25           30
Cys Met Lys Tyr Val Trp Pro Pro Leu Met Ala Ala Ile Glu Lys Arg
           35           40           45
Gln Lys Glu Ile Ala Asp Gly Leu Ala Ser Ala Glu Arg Ala Lys Lys
           50           55           60
Asp Leu Asp Leu Ala Gln Ala Asn Ala Thr Asp Gln Leu Lys Lys Ala
           65           70           75           80
Lys Ala Glu Ala Gln Val Ile Ile Glu Gln Ala Asn Lys Arg Arg Ser
           85           90           95
Gln Ile Leu Asp Glu Ala Lys Ala Glu Ala Glu Gln Glu Arg Thr Lys
           100          105          110
Ile Val Thr Gln Ala Gln Ala Glu Ile Glu Ala Glu Arg Lys Arg Ala
           115          120          125
Arg Glu Glu Leu Arg Lys Gln Val Ala Ile Leu Ala Val Ala Gly Ala
           130          135          140
Glu Lys Ile Ile Glu Arg Ser Val Asp Glu Ala Ala Asn Ser Asp Ile

```

160

<400> 8394

Leu 1	Lys	Ser	Cys	Ser 5	Trp	Phe	Thr	Thr	Lys 10	Leu	Val	Arg	Pro	Ala 15	Leu
Leu	Arg	Asn	Ser 20	Pro	Arg	Ser	Ser	Arg 25	Gly	Pro	Pro	Arg	Phe 30	Asn	Gln
Val	Tyr	Glu 35	Leu	Arg	Arg	Gly	Phe 40	Lys	Met	Ala	Thr	Gly 45	Lys	Ile	Val
Gln	Val 50	Ile	Gly	Ala	Val	Val 55	Asp	Val	Glu	Phe	Pro 60	Gln	Asp	Ala	Val
Pro 65	Arg	Val	Tyr	Asp 70	Ala	Leu	Glu	Val	Gln	Asn 75	Gly	Asn	Glu	Ser	Leu 80
Val	Leu	Glu	Val 85	Gln	Gln	Gln	Leu	Gly 90	Gly	Gly	Ile	Val	Arg	Thr 95	Ile
Ala	Met	Gly	Ser 100	Ser	Asp	Gly	Leu	Arg 105	Arg	Gly	Leu	Glu	Val 110	Lys	Asp
Leu	Glu	His 115	Pro	Ile	Glu	Val	Pro 120	Val	Gly	Lys	Ala	Thr 125	Leu	Gly	Arg
Ile	Met 130	Asn	Val	Leu	Gly	Gln 135	Pro	Ile	Asp	Met	Lys 140	Gly	Asp	Ile	Gly
Glu 145	Glu	Glu	Arg	Trp 150	Ala	Ile	His	Arg	Ala	Ala 155	Pro	Ser	Tyr	Glu	Glu 160
Leu	Ser	Ser	Ser 165	Gln	Glu	Leu	Leu	Glu	Thr 170	Gly	Ile	Lys	Val	Ile	Asp 175
Leu	Met	Cys 180	Pro	Phe	Ala	Lys	Gly 185	Gly	Lys	Val	Gly	Leu	Phe 190	Gly	Gly
Ala	Gly 195	Val	Gly	Lys	Thr	Val	Asn 200	Met	Met	Glu	Leu	Ile 205	Arg	Asn	Ile
Ala 210	Ile	Glu	His	Ser	Gly	Tyr 215	Ser	Val	Phe	Ala	Gly 220	Val	Gly	Glu	Arg
Thr 225	Arg	Glu	Gly	Asn 230	Asp	Phe	Tyr	His	Glu	Met 235	Thr	Asp	Ser	Asn	Val 240
Leu	Asp	Lys	Val 245	Ser	Leu	Val	Tyr	Gly	Gln 250	Met	Asn	Glu	Pro	Pro	Gly 255
Asn	Arg	Leu 260	Arg	Val	Ala	Leu	Thr 265	Gly	Leu	Thr	Met	Ala	Glu	Lys	Phe 270
Arg	Asp 275	Glu	Gly	Arg	Asp	Val	Leu 280	Leu	Phe	Val	Asp	Asn 285	Ile	Tyr	Arg
Tyr	Thr 290	Leu	Ala	Gly	Thr 295	Glu	Val	Ser	Ala	Leu	Leu	Gly	Arg	Met	Pro
Ser 305	Ala	Val	Gly	Tyr 310	Gln	Pro	Thr	Leu	Ala	Glu 315	Glu	Met	Gly	Val	Leu 320
Gln	Glu	Arg	Ile 325	Thr	Ser	Thr	Lys	Thr	Gly 330	Ser	Ile	Thr	Ser	Val	Gln 335
Ala	Val 340	Tyr	Val	Pro	Ala	Asp	Asp 345	Leu	Thr	Asp	Pro	Ser	Pro	Ala	Thr
Thr	Phe 355	Ala	His	Leu	Asp	Ala	Thr 360	Val	Val	Leu	Ser	Arg	Gln	Ile	Ala
Ser	Leu 370	Gly	Ile	Tyr 375	Pro	Ala	Val	Asp	Pro	Leu	Asp 380	Ser	Thr	Ser	Arg
Gln 385	Leu	Asp	Pro	Leu 390	Val	Val	Gly	Gln	Glu	His 395	Tyr	Asp	Thr	Ala	Arg 400
Gly	Val	Gln	Ser	Leu	Leu	Gln	Arg	Tyr	Gln	Glu	Leu	Lys	Asp	Ile	Ile

				405					410					415			
Ala	Ile	Leu	Gly	Met	Asp	Glu	Leu	Ser	Glu	Glu	Asp	Lys	Leu	Val	Val		
			420					425					430				
Ala	Arg	Ala	Arg	Lys	Ile	Gln	Arg	Phe	Leu	Ser	Gln	Pro	Phe	Phe	Val		
			435					440					445				
Ala	Glu	Val	Phe	Thr	Gly	Ser	Pro	Gly	Lys	Tyr	Val	Ser	Leu	Lys	Asp		
			450			455					460						
Thr	Ile	Arg	Gly	Phe	Lys	Gly	Ile	Met	Glu	Gly	Glu	Tyr	Asp	His	Leu		
465					470					475					480		
Pro	Glu	Gln	Ala	Phe	Tyr	Met	Val	Gly	Ser	Ile	Glu	Glu	Ala	Val	Glu		
				485					490					495			
Lys	Ala	Lys	Lys	Leu													
			500														

<210> 8395

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 8395

Gly	His	Trp	Ile	Met	Pro	Gly	Arg	Ile	Val	Asn	Val	Leu	Leu	Ala	Cys		
1				5					10					15			
Cys	Leu	Thr	Gly	Ile	Ser	Thr	Met	Ala	Ser	Ala	Gly	Val	Val	Ile	Gly		
			20					25					30				
Gly	Thr	Arg	Val	Val	Tyr	Ser	Ser	Asp	Lys	Ser	Asp	Ala	Thr	Ile	Thr		
			35				40					45					
Val	Lys	Asn	Asn	Glu	Ala	Ala	Ile	Pro	Tyr	Leu	Ile	Gln	Thr	Trp	Val		
			50			55				60							
Asp	Pro	Phe	Ser	Asn	Thr	Gly	Thr	Ala	Lys	Lys	Pro	Pro	Phe	Thr	Val		
65				70					75					80			
Ile	Pro	Pro	Val	Ser	Arg	Leu	Glu	Ala	Gly	Gln	Glu	Lys	Ile	Leu	Arg		
				85					90					95			
Ile	Met	Lys	Thr	Glu	Gly	Asn	Leu	Pro	Gln	Asp	Arg	Glu	Ser	Val	Phe		
			100					105					110				
Trp	Leu	Asn	Ile	Lys	Asn	Ile	Pro	Pro	Ala	Ser	Asn	Lys	Pro	Asn	Ala		
			115				120					125					
Met	Glu	Ile	Ala	Ile	Lys	Thr	Arg	Ile	Lys	Leu	Ile	Trp	Arg	Pro	Ala		
			130			135					140						
Ser	Leu	Asn	Ile	Thr	Pro	Glu	Arg	Ala	Ala	Thr	Gln	Val	Lys	Trp	His		
145				150						155				160			
Arg	Glu	Asn	Arg	Gln	Leu	Val	Val	Glu	Asn	Pro	Thr	Pro	Leu	Asn	Ile		
				165				170						175			
Asn	Val	Met	Asn	Val	Thr	Val	Asp	Gly	Lys	Asp	Val	Pro	Leu	Asn	Ile		
			180				185						190				
Val	His	Pro	Phe	Glu	Thr	Leu	Arg	Leu	Pro	Leu	Pro	Glu	Gly	Val	Asn		
			195			200						205					
Gly	His	Ala	Leu	Val	Trp	Arg	Tyr	Val	Asn	Asp	Phe	Gly	Ala	Ile	Ser		
			210			215					220						
Gln	Asp	Leu	Lys	Ala	Ala	Leu											
225					230												

<210> 8396

<211> 846

<212> PRT

<213> Enterobacter cloacae

<400> 8396

Ala	Lys	Asp	Gly	Leu	Phe	Met	Glu	Cys	Tyr	Arg	Ile	Phe	Ile	Ala	Leu		
1				5					10					15			
Ala	Ser	Gly	Met	Val	Leu	Gly	Leu	Ser	Gly	Glu	Val	Ala	Ala	Arg	Asp		
			20					25						30			

Met	Phe	Asn	Pro	Ala	Leu	Leu	Glu	Ile	Asp	His	Pro	Val	Asp	Val	Asp
		35					40					45			
Ile	His	Gln	Phe	Asn	Arg	Ala	Asn	Ser	Leu	Pro	Ala	Gly	Asn	Tyr	Lys
	50					55					60				
Val	Ser	Ile	Tyr	Val	Asn	Gly	Glu	Tyr	Val	Asp	Arg	Arg	Glu	Val	Thr
65					70					75					80
Phe	Val	Glu	Asp	Thr	Ala	Thr	Ser	Asn	Leu	His	Pro	Cys	Phe	Ser	Asp
				85					90					95	
Ile	Lys	Thr	Val	Leu	Ala	Glu	Leu	Gly	Val	Lys	Val	Ala	Ala	Ile	Lys
			100					105					110		
Ala	Leu	Asn	Asp	Ile	Asp	Asp	Lys	Ala	Cys	Leu	Asp	Pro	Ala	Pro	Leu
		115					120					125			
Val	Pro	Gly	Ser	Thr	Trp	Thr	Phe	Asp	Thr	Asp	Lys	Leu	Gln	Leu	Asn
	130						135				140				
Val	Thr	Leu	Pro	Gln	Ile	Tyr	Ile	Asp	Val	Ser	Ala	Arg	Gly	Tyr	Ile
145					150					155					160
Asn	Pro	Ser	Arg	Trp	Asp	Glu	Gly	Ile	Asn	Ala	Leu	Met	Val	Asn	Tyr
				165					170					175	
Asp	Phe	Ser	Gly	Ser	Ser	Thr	Val	His	Ser	Asn	Glu	Asp	Asp	Asn	Asn
			180					185					190		
Asp	Phe	Tyr	Tyr	Leu	Asn	Leu	Arg	Asn	Gly	Ala	Asn	Leu	Gly	Ala	Trp
		195					200					205			
Arg	Leu	Arg	Asn	Tyr	Ser	Thr	Leu	Asn	Val	Thr	Asp	Gly	Glu	Ser	Ser
	210					215					220				
Tyr	His	Ser	Ile	Asn	Thr	Tyr	Leu	Gln	Arg	Asp	Ile	Ala	Ala	Leu	Arg
225					230					235					240
Ser	Gln	Ile	Met	Leu	Gly	Asp	Thr	Trp	Thr	Ala	Ser	Asp	Val	Phe	Asp
				245					250					255	
Ser	Thr	Gln	Leu	Arg	Gly	Met	Arg	Leu	Tyr	Thr	Asp	Asp	Asp	Met	Leu
			260					265					270		
Pro	Ser	Ser	Leu	Thr	Gly	Phe	Ala	Pro	Val	Val	Arg	Gly	Val	Ala	Lys
		275					280					285			
Ser	Asn	Ala	Thr	Val	Ile	Val	Arg	Gln	Asn	Gly	Tyr	Ile	Ile	Tyr	Gln
	290					295					300				
Ser	Ala	Val	Pro	Gln	Gly	Ala	Phe	Ala	Leu	Lys	Asp	Leu	Asn	Thr	Thr
305					310					315					320
Asn	Ser	Gly	Gly	Asp	Leu	Asp	Val	Thr	Ile	Lys	Glu	Glu	Asp	Gly	Ser
				325					330					335	
Glu	Gln	His	Phe	Thr	Gln	Pro	Tyr	Ala	Ser	Leu	Ala	Ile	Leu	Lys	Arg
			340					345					350		
Glu	Asp	Gln	Thr	Asp	Val	Asp	Ile	Ser	Ala	Gly	Glu	Leu	Arg	Asp	Gln
		355					360					365			
Asn	Asp	Phe	Gln	Pro	Thr	Val	Phe	Gln	Ala	Gln	Val	Leu	His	Gly	Phe
	370					375					380				
Pro	Ala	Gly	Ile	Thr	Leu	Tyr	Gly	Gly	Val	Gln	Gly	Thr	Ser	Asp	Tyr
385					390					395					400
Thr	Ser	Ala	Ala	Leu	Gly	Val	Gly	Lys	Asp	Met	Gly	Ser	Leu	Gly	Ala
				405					410					415	
Leu	Ser	Leu	Asp	Val	Thr	His	Ala	Arg	Ser	Arg	Phe	Glu	Asp	Asp	Asp
			420					425					430		
Glu	Ser	Gly	Gln	Ser	Tyr	Arg	Phe	Leu	Tyr	Ser	Lys	Arg	Phe	Asp	Glu
		435					440					445			
Thr	Asn	Thr	Thr	Phe	Arg	Leu	Val	Gly	Tyr	Arg	Tyr	Ser	Thr	Glu	Gly
	450					455					460				
Tyr	Tyr	Thr	Leu	Asn	Glu	Trp	Ala	Ser	Arg	Gln	Asn	Asn	Glu	Ser	Asp
465					470					475					480
Phe	Trp	Thr	Thr	Gly	Asn	Arg	Arg	Ser	Arg	Leu	Glu	Gly	Thr	Trp	Thr
				485					490					495	
Gln	Thr	Phe	Gly	Asp	Gly	Met	Gly	Asn	Ile	Tyr	Leu	Thr	Leu	Ser	Arg
			500					505					510		
Gln	Gln	Tyr	Trp	Lys	Thr	Asp	Glu	Val	Glu	Arg	Leu	Val	Gln	Leu	Gly

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<210> 8397
<211> 362
<212> PRT
<213> Enterobacter cloacae
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Gly 1	Asn	Lys	Met	Lys 5	Phe	Arg	Thr	Pro	Leu 10	Phe	Leu	Ser	Ala	Leu 15	Ile
Ile	Phe	Met	Thr 20	Pro	Val	Cys	Lys	Ala 25	Tyr	Thr	Thr	Gly	Asp 30	Gly	Ile
Cys	His	Ser 35	Glu	Gly	Gly	Ala	Tyr 40	Ile	Tyr	Asn	Leu	Asn 45	Leu	Asn	Gly
Gln	Ser 50	Ile	Pro	Ala	Asp	Lys 55	Asn	Lys	Ala	Gly	Thr 60	Glu	Ile	Arg	Asp
Leu 65	Glu	Thr	Leu	Ser	Ser 70	Ser	Ala	Ser	Tyr	Lys 75	Ala	Gln	Cys	Asn 80	Cys
Leu	Thr	His	Tyr	Ser 85	Thr	Gly	Phe	Arg	Gln 90	Ile	Tyr	Tyr	Thr	Ala 95	Arg
Ser	Ser	Leu	Ser	Glu	Asp	Val	Val	Lys	Asn	Gly	Tyr	Thr	Tyr	Phe	Thr

```
<210> 8398
<211> 358
<212> PRT
<213> Enterobacter cloacae
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Thr 1	Met	Ile	Tyr	Glu 5	Ile	Leu	Ala	Gly	Asp 10	Ile	Met	Lys	Val	Met 15	Arg
Thr	Thr	Val	Ala 20	Thr	Val	Val	Ala	Ala 25	Thr	Leu	Ser	Met	Ser 30	Ala	Phe
Ser	Ala	Phe 35	Ala	Ala	Ala	Ser	Leu 40	Thr	Gly	Ala	Gly	Ala 45	Thr	Phe	Pro
Ala	Pro 50	Val	Tyr	Ala	Lys	Trp 55	Ala	Asp	Thr	Tyr	Gln 60	Lys	Glu	Thr	Gly
Asn 65	Lys	Val	Asn	Tyr	Gln 70	Gly	Ile	Gly	Ser	Ser 75	Gly	Gly	Val	Lys 80	Gln
Ile	Thr	Ala	Asn 85	Thr	Val	Asp	Phe	Gly	Ala 90	Ser	Asp	Ala	Pro	Leu 95	Ser
Asp	Glu	Lys	Leu 100	Asn	Gln	Glu	Gly	Leu 105	Phe	Gln	Phe	Pro	Thr 110	Val	Ile
Gly	Gly	Val 115	Val	Leu	Ala	Val	Asn 120	Ile	Pro	Gly	Leu	Lys 125	Ser	Gly	Glu
Leu	Val 130	Leu	Asp	Gly	Lys	Thr 135	Leu	Gly	Asp	Ile	Tyr 140	Leu	Gly	Lys	Ile
Lys 145	Lys	Trp	Asp	Asp	Glu 150	Ala	Ile	Thr	Lys	Leu 155	Asn	Pro	Gly	Val	Lys 160
Leu	Pro	Ser	Gln	Asn	Ile	Ala	Val	Val	Arg	Arg	Ala	Asp	Gly	Ser	Gly

```
<210> 8399
<211> 303
<212> PRT
<213> Enterobacter cloacae
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Lys 1	Arg	Gly	Gly	Thr 5	Leu	Met	Ala	Thr	Leu 10	Asp	Met	Gln	Asn	Thr 15	Ala
Gln	Leu	Ala	Glu 20	Ser	Arg	Arg	Lys	Met 25	Gln	Ser	Lys	Arg	Arg 30	Ile	Lys
Asn	Arg	Ile 35	Ala	Leu	Thr	Leu	Ser 40	Met	Ala	Thr	Met	Ala 45	Phe	Gly	Leu
Phe	Trp 50	Leu	Ile	Trp	Ile	Leu 55	Met	Ser	Thr	Ile	Thr 60	Arg	Gly	Ile	Asp
Gly 65	Met	Ser	Leu	Ala 70	Leu	Phe	Thr	Glu	Met	Thr 75	Pro	Pro	Pro	Asn 80	Thr
Ala	Gly	Gly	Gly	Leu 85	Ala	Asn	Ala	Leu 90	Ala	Gly	Ser	Gly	Leu 95	Leu	Ile
Leu	Trp	Ala	Thr 100	Val	Phe	Gly	Thr	Pro 105	Leu	Gly	Ile	Met	Ala 110	Gly	Ile
Tyr	Leu	Ala 115	Glu	Tyr	Gly	Arg	Lys 120	Ser	Trp	Ile	Ala	Glu 125	Val	Ile	Arg
Phe	Ile 130	Asn	Asp	Ile	Leu	Leu 135	Ser	Ala	Pro	Ser	Ile 140	Val	Val	Gly	Leu
Phe 145	Val	Tyr	Thr	Ile 150	Val	Val	Ala	Gln	Met	Glu 155	His	Phe	Ser	Gly	Trp 160
Ala	Gly	Val	Ile	Ala 165	Leu	Ala	Leu	Leu 170	Gln	Val	Pro	Ile	Val 175	Ile	Arg
Thr	Thr	Glu	Asn 180	Met	Leu	Lys	Leu 185	Val	Pro	Asp	Ser	Leu 190	Arg	Glu	Ala
Ala	Tyr 195	Ala	Leu	Gly	Thr	Pro	Lys 200	Trp	Lys	Met	Ile 205	Ser	Ala	Ile	Thr
Leu	Lys 210	Ala	Ser	Val	Ser	Gly 215	Ile	Met	Thr	Gly	Ile 220	Leu	Leu	Ala	Ile
Ala	Arg	Ile	Ala	Gly	Glu	Thr	Ala	Pro	Leu	Leu	Phe	Thr	Ala	Leu	Ser

225					230					235				240	
Asn	Gln	Phe	Trp	Ser	Thr	Asp	Met	Met	Gln	Pro	Ile	Ala	Asn	Leu	Pro
				245					250					255	
Val	Thr	Ile	Phe	Lys	Phe	Ala	Met	Ser	Pro	Phe	Ala	Glu	Trp	Gln	Gln
			260					265					270		
Leu	Ala	Trp	Ala	Gly	Val	Leu	Ile	Ile	Thr	Leu	Cys	Val	Leu	Leu	Leu
		275					280					285			
Asn	Ile	Leu	Ala	Arg	Val	Ile	Phe	Ala	Lys	Lys	Lys	His	Gly		
	290					295					300				

<210> 8400

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 8400

Ser	Leu	Pro	Phe	Arg	Val	Lys	Val	Ile	Thr	Ser	Pro	Ala	Cys	Ala	Pro
1				5					10					15	
Val	Thr	Leu	Pro	Val	Thr	Ile	Ser	Ala	Trp	Pro	Cys	Ser	Ala	Ile	Leu
			20					25					30		
Thr	Met	Ser	Ser	Pro	Ala	Thr	Met	Ser	Lys	Val	Ile	Cys	Gly	Thr	Val
		35					40					45			
Val	Ser	Thr	Ser	Thr	Asp	Ala	Pro	Ala	Leu	Ala	Gly	Leu	Pro	Ala	Leu
	50					55					60				
Ser	Asp	Thr	Val	Thr	Val	Thr	Ala	Ala	Leu	Pro	Ser	Ala	Ile	Pro	Ala
65					70					75				80	
Arg	Ser	Ala	Ala	Gly	Thr	Ser	Ser	Val	Gln	Leu	Pro	Phe	Ala	Cys	Thr
				85					90					95	
Trp	Ala	Val	Tyr												
			100												

<210> 8401

<211> 727

<212> PRT

<213> Enterobacter cloacae

<400> 8401

Thr	Gly	Arg	Ser	Ile	Met	Lys	Thr	His	Pro	Gln	Tyr	Glu	Pro	Trp	Leu
1				5					10					15	
Gln	Gly	Met	Leu	Ile	Ile	Ala	Lys	Tyr	Arg	Leu	Asp	Phe	Ser	Ala	
			20					25				30			
Glu	His	Val	Arg	Val	Thr	Ile	Asn	His	Glu	Ser	Gln	Ser	Pro	Arg	Gln
		35					40					45			
Leu	Val	Leu	Glu	Glu	Met	Ala	Arg	Gln	Leu	Gly	Leu	Gly	Met	Arg	Trp
	50					55					60				
Val	Ala	Ala	Glu	Ala	Leu	Ser	Leu	Asp	Pro	Trp	Arg	Leu	Pro	Leu	Leu
65					70					75				80	
Ala	Glu	Phe	Thr	Gly	Gly	Gln	Ile	Ala	Val	Ile	Asn	Arg	Met	Asp	Asn
				85					90					95	
Asp	Gly	Asn	Val	Ser	Val	Gln	Phe	Ser	Gly	Asp	Gly	Gly	Leu	Glu	Thr
		100						105					110		
Thr	Leu	Thr	Arg	Asp	Glu	Leu	Gly	Ser	Arg	Leu	Lys	Gly	Leu	Met	Val
		115					120					125			
Leu	Arg	Pro	Leu	Glu	Ser	Thr	Pro	Asp	Ala	Arg	Val	Asp	Asp	Tyr	Ile
	130					135					140				
Lys	Pro	Tyr	Glu	Lys	Asn	Trp	Phe	Trp	Gln	Leu	Ala	Leu	Lys	Asp	Trp
145					150					155				160	
Arg	Arg	Tyr	Ser	Asp	Ile	Met	Leu	Val	Ala	Leu	Val	Ala	Asn	Val	Leu
				165					170					175	
Ala	Leu	Ser	Gly	Met	Val	Phe	Ser	Met	Gln	Val	Tyr	Asp	Arg	Val	Val
			180					185					190		

Pro	Ser	Gln	Ser	Glu	Ala	Thr	Leu	Trp	Val	Leu	Phe	Gly	Gly	Val	Met
		195					200					205			
Ile	Ala	Ile	Val	Phe	Glu	Phe	Ile	Met	Arg	Met	Leu	Arg	Val	His	Ile
	210					215					220				
Ser	Asp	Val	Val	Gly	Lys	Arg	Ala	Asp	Leu	Arg	Ile	Ser	Glu	Arg	Val
225					230					235					240
Phe	Ala	His	Ala	Leu	Arg	Ile	Lys	Asn	Gly	Ala	Arg	Ser	Lys	Ser	Thr
			245						250					255	
Gly	Ser	Phe	Ile	Ala	Gln	Ile	Arg	Glu	Leu	Glu	Ser	Val	Arg	Glu	Leu
			260					265					270		
Ile	Thr	Ser	Thr	Thr	Ile	Ala	Ala	Ile	Ser	Asp	Leu	Pro	Phe	Phe	Leu
		275					280					285			
Leu	Phe	Val	Phe	Ile	Leu	Trp	Met	Ile	Gly	Gly	Pro	Leu	Val	Leu	Val
	290					295					300				
Val	Leu	Leu	Ala	Val	Pro	Leu	Leu	Leu	Ile	Pro	Gly	Leu	Leu	Val	Gln
305					310					315					320
Arg	Pro	Leu	Gly	Lys	Leu	Ser	Ser	Glu	Gly	Met	Arg	Glu	Ser	Ala	Ile
				325					330					335	
Arg	Asn	Ala	Thr	Leu	Val	Glu	Ala	Val	Gln	Gly	Leu	Glu	Asp	Ile	Lys
			340					345					350		
Leu	Met	Arg	Ala	Glu	Gln	Arg	Phe	Gln	Asn	Gln	Trp	Asn	Asn	Thr	Asn
		355					360					365			
Asp	Val	Ala	Ala	Ser	Val	Gly	Met	Lys	Gln	Arg	Trp	Leu	Thr	Gly	Leu
	370					375					380				
Leu	Leu	Thr	Trp	Thr	Gln	Glu	Val	Gln	Ser	Ile	Val	Tyr	Ala	Val	Val
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Leu	Leu	Val	Gly	Cys	Tyr	Leu	Val	Ile	Ser	Gly	Asp	Met	Thr	Thr	Gly
				405					410					415	
Ala	Leu	Val	Gly	Thr	Ser	Ile	Leu	Ala	Ser	Arg	Thr	Ile	Ala	Pro	Leu
			420					425					430		
Ser	Gln	Ile	Ser	Gly	Val	Leu	Ser	Arg	Trp	Gln	Ser	Ala	Lys	Val	Ala
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Arg	Lys	Gly	Leu	Asp	Asp	Leu	Met	Gln	Arg	Pro	Ile	Asp	Asp	Pro	Gln
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His	Gly	Lys	Lys	Val	His	Lys	Ala	His	Leu	Arg	Gly	Asp	Tyr	Leu	Leu
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Asp	Asp	Val	Gly	Phe	Tyr	Tyr	Asp	Glu	Glu	Glu	Lys	Leu	Thr	Val	Leu
				485					490					495	
Asn	Ile	Ser	Lys	Leu	Arg	Ile	Arg	Ala	Gly	Glu	Arg	Val	Ala	Val	Leu
			500					505					510		
Gly	Arg	Asn	Gly	Ser	Gly	Lys	Ser	Thr	Leu	Leu	His	Leu	Leu	Ala	Gly
		515					520					525			
Met	Gln	Glu	Pro	Gln	Gln	Gly	Ser	Ile	Leu	Leu	Asp	Asp	Ile	Ala	Leu
	530					535					540				
Asn	His	Leu	Asp	Pro	Ala	Asp	Val	Arg	Arg	Asp	Met	Gln	Leu	Leu	Ser
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Gln	Gln	Ala	Arg	Leu	Phe	Phe	Gly	Ser	Val	Arg	Asp	Asn	Ile	Leu	Met
				565					570					575	
Gly	Asn	Pro	Leu	Ala	Thr	Asp	Glu	Glu	Ile	His	Gln	Ala	Leu	Val	Asn
			580				585						590		
Ser	Gly	Ala	Leu	Glu	Tyr	Val	Arg	Lys	Gln	Lys	Met	Gly	Leu	Asn	Thr
		595					600					605			
Ile	Ile	Asn	Glu	Gly	Gly	Thr	Gly	Leu	Ser	Gly	Gly	Gln	Arg	Gln	Ala
	610					615					620				
Leu	Leu	Leu	Ala	Arg	Ala	Leu	Ile	Thr	Ser	Pro	Asn	Ile	Leu	Leu	Leu
625					630					635					640
Asp	Glu	Pro	Thr	Ala	Trp	Leu	Asp	Glu	Val	Ser	Glu	Lys	Gln	Phe	Ile
				645					650					655	
Gln	His	Leu	His	Gln	Trp	Leu	Gly	Lys	Arg	Arg	Thr	Leu	Val	Val	Ala
			660				665					670			
Thr	His	Arg	Leu	Pro	Ile	Leu	Asp	Leu	Val	Asp	Arg	Ile	Ile	Val	Leu

	675		680		685	
Glu	Asn Gly Lys Val Val	Met Asp Gly Pro Arg	Asp Ala Ile Leu Arg			
690		695		700		
Gln	His Gly Met Ala Pro	His Gln Ala Pro Gln	Arg Thr Val Lys Leu			
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Lys	Thr Glu Gly Val Ala					
	725					

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<211> 6016

<212> PRT

<213> Enterobacter cloacae

<400> 8402

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Lys	Leu	Thr	Gly	Glu	Gly	Asn	Leu	Ser	Val	Ser	Ile	Ser	Ser	Pro	Ser
			20					25					30		
Val	Ile	Glu	Ile	Gln	Gly	Ser	Ala	Gln	Asp	Val	Val	Arg	Tyr	Val	Arg
		35					40					45			
Gln	Gly	Asn	Asp	Leu	Leu	Ile	Tyr	Met	Lys	Asp	Gly	Ser	Val	Ile	Arg
	50					55					60				
Cys	Asn	Asn	Tyr	Phe	Val	Glu	Asp	Thr	Glu	Thr	His	Asn	His	Ser	Glu
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Leu	Val	Phe	Asn	Asp	Asn	Gln	Ala	Leu	Thr	His	Ile	Ser	Phe	Ala	Asp
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Ala	Gly	Glu	Ala	Ser	Gly	Val	Ala	Ala	Thr	Glu	Leu	Thr	Ala	Gln	Ala
			100					105					110		
Ala	Pro	Ile	Ser	Ser	Ile	Glu	Pro	Phe	Leu	Glu	Gln	Gly	Ser	Val	Leu
	115						120						125		
Ser	Asp	Ala	Pro	Trp	Gly	Trp	Ile	Ala	Gly	Ala	Ala	Leu	Gly	Gly	Gly
	130					135						140			
Ala	Ile	Gly	Ala	Leu	Leu	Ala	His	Gly	Gly	Asp	Gly	Glu	Thr	Lys	Thr
145				150						155					160
Lys	Val	Ile	Asp	Asn	Thr	Lys	Glu	Val	Glu	Ser	Ala	Thr	Pro	Thr	Phe
			165						170					175	
Leu	Leu	Thr	Asp	Asn	Ala	Gly	Asp	Lys	Gln	Gly	Val	Leu	Ser	Ala	Lys
		180					185						190		
Glu	Val	Thr	Asp	Asp	Asn	Thr	Pro	Thr	Phe	Ser	Gly	Thr	Gly	Gln	Pro
		195					200					205			
Gly	Ala	Thr	Ile	Gln	Val	Lys	Asp	Gly	Ser	Gly	Ser	Thr	Ile	Ala	Ser
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Thr	Met	Val	Ala	Lys	Asp	Gly	Thr	Trp	Thr	Val	Thr	Leu	Pro	Thr	Gln
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Ala	Asp	Gly	Glu	His	Thr	Trp	Ser	Val	Val	Gln	Ile	Asp	Gly	Ser	Lys
				245					250					255	
Thr	Thr	Ser	Ala	Gly	Ser	Ile	Asn	Val	Thr	Val	Ser	Thr	Ala	Asp	Thr
		260						265					270		
Ser	Val	Thr	Leu	Ala	Thr	Thr	Ala	Gly	Asp	Asn	Val	Ile	Asn	Ala	Ser
		275					280					285			
Glu	Gln	Ser	Ala	Gly	Phe	Thr	Leu	Ser	Gly	Thr	Ser	Lys	Asn	Leu	Ala
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Gln	Gly	Thr	Ala	Leu	Thr	Val	Thr	Leu	Asn	Gly	Arg	Thr	Tyr	Thr	Ala
305					310					315					320
Glu	Val	Gly	Ala	Asn	Gly	Ala	Trp	Ser	Val	Lys	Val	Pro	Ala	Ala	Asp
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Ala	Gln	Ala	Leu	Gly	Asp	Gly	Thr	Trp	Thr	Val	Asn	Val	Ser	Gly	Lys
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Asp	Ala	Ala	Gly	Asn	Thr	Val	Ser	Gly	Ser	Gln	Thr	Ile	Gly	Val	Asp
	355						360					365			
Thr	Ala	Ser	Pro	Val	Ile	Ser	Val	Asp	Thr	Ile	Ala	Gln	Asp	Asn	Ile

370	375	380
Ile Asn Ala Ala Glu His	Asn Gln Pro Leu Thr	Leu Thr Gly Lys Thr
385	390	395
Asp Ala Glu Ala Gly Gln	Ile Val Thr Val Thr	Leu Asn Gly Lys Asn
	405	410
His Thr Ala Thr Val Gly	Ser Asp Gly Ser Trp Ser	Val Thr Leu Pro
	420	425
Ala Ser Glu Val Gln Thr	Leu Ala Asn Gly Glu His	Thr Leu Thr Val
	435	440
Asn Val Ser Asp Lys Ala	Gly Asn Gly Ser Ser	Ile Thr Ala Asp Phe
	450	455
Thr Val Asp Thr Ala Ala	Pro Val Val Thr	Ile Asn Thr Val Ala Gly
465	470	475
Asp Asp Ile Leu Asn Thr	Ser Glu Gln Gly Gln	Ala Gln Ile Ile Ser
	485	490
Gly Gln Ala Asn Gly Ala	Ala Glu Gly Asp Val	Val Thr Val Thr Val
	500	505
Gly Gly Lys Thr Phe Thr	Gly Val Val Gln Ala	Asp Gly Ser Trp Ser
	515	520
Val Gly Val Pro Ala Ser	Val Ile Gly Ala Leu	Gly Glu Gly Ser His
	530	535
Ser Ile Ser Val Ala Val	Thr Asp Ala Ala Gly	Asn Thr Gly Ser Ala
545	550	555
Thr His Gly Ile Thr Leu	Ser Gly Asn Pro Pro	Glu Phe Thr Leu Asp
	565	570
Pro Ile Ser Gln Asp Asn	Val Leu Asn Ala Gln	Glu Ala Met Gln Pro
	580	585
Leu Ser Leu Ser Gly Thr	Ser Asn Leu Pro Asn	Gly Ser Ala Val Thr
	595	600
Val Thr Leu Asn Asn Val	Asn Tyr Gln Ala Thr	Val Glu Asn Gly Arg
	610	615
Trp Ser Val Gln Val Pro	Val Ser Asp Val Leu	Asp Leu Ala Asn Thr
625	630	635
Leu Tyr Thr Val Ser Val	Ser Gly Thr Asp Ser	Val Gly Asn Ser Gly
	645	650
Ser Ala Glu Ala Asn Leu	Leu Val Asp Thr Val	Leu Pro Gln Val Ile
	660	665
Val Asn Thr Phe Ala Gly	Asp Asn Leu Val Asn	Asn Ala Glu Ala Ala
	675	680
Val Asp Gln Thr Leu Ser	Gly Arg Val Thr Gly	Ala Ala Ala Gly Asp
	690	695
Thr Val Ser Val Thr Val	Gly Gly Lys Ser Tyr	Thr Ala Thr Val Gly
705	710	715
Ser Asp Leu Lys Trp Ser	Val Thr Ile Pro Ser	Ala Asp Leu Gln Ala
	725	730
Phe Gly Asp Gly Asp Leu	Thr Phe Ser Ala Ser	Val Thr Asn Ala His
	740	745
Gly Asn Thr Gly Thr Gly	Glu Arg Asp Ile Asn	Ile Asn Ala Glu Leu
	755	760
Pro Gly Leu Arg Val Asn	Thr Ile Ser Gly Asp	Asp Val Ile Asn Ala
	770	775
Ile Glu Gln Gln Gln Asp	Leu Ala Val Thr Gly	Ser Ser Thr His Leu
785	790	795
Ala Glu Gly Thr Gln Ile	Thr Val Thr Ile Asn	Asn Val Glu Tyr Val
	805	810
Thr Thr Val Asn Ala Ser	Gly Ser Trp Gln Ile	Gly Val Pro Ala Ala
	820	825
Asp Leu Gln Ala Trp Thr	Ala Gly Gly Ile Thr	Val Ser Val Ser Ala
	835	840
Glu Asp Ala Trp Gly Asn	Thr Val Ala Ala Glu	His Pro Ile Glu Leu
	850	855
		860

Asp Leu Asn Ala Val Ala Val Thr Ile Asp Thr Val Thr Thr Asp Asp
 865 870 875 880
 Met Leu Asn Ala Ala Glu Lys Gly Ala Asp Val Thr Leu Ser Gly Gln
 885 890 895
 Thr Gln Gly Val Glu Ala Gly Gln Thr Val Val Val Lys Phe Ala Asp
 900 905 910
 Gln Thr Phe Thr Ala Gln Val Gln Gln Asp Gly Ser Trp His Leu Thr
 915 920 925
 Val Pro Ala Ser Ala Met Glu Thr Leu Ile Asp Gly Arg Ala Gln Val
 930 935 940
 Ser Val Ser Val Thr Asn Val Asn Gly Asn Ser Ala Asp Ala Ser Arg
 945 950 955 960
 Val Val Ile Val Asp Thr Gln Pro Pro Ala Ile Thr Leu Asp Asn Leu
 965 970 975
 Thr Asp Asp Asn Ile Ile Asn Ala Ala Glu Ala Gln Gln Asp Leu Val
 980 985 990
 Leu Ser Gly Ser Thr Thr Ala Glu Thr Gly Gln Thr Val Thr Val Thr
 995 1000 1005
 Leu Asn Gly Lys Ser Tyr Gln Thr Thr Val Gln Ala Asp Gly Arg Trp
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 Val Thr Val Thr Ala Thr Val Ser Asp Val Ala Gly Asn Ser Ser Ser
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 Asn Asp Phe Val Thr Asp Thr Asn Thr Val Asn Gln Leu Ala His Ala
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 Gln Ala Gln Ile Leu Ser Gly Ser Val Thr Gly Ala Ala Ala Gly Asp
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 Leu Val Thr Ile Thr Ile Asn Asn Val Asp Tyr Thr Thr Val Val Asp
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 Ala Ala Gly Asn Trp Ser Leu Gly Leu Pro Ala Ser Val Ile Gln Gly
 1125 1130 1135
 Leu Thr Asp Gly Thr Trp Thr Ile Asn Val Ser Val Thr Asp Arg Ser
 1140 1145 1150
 Gly Asn Thr Gly Ser Ser Ser Val Asp Val Val Val Asn Thr Val Thr
 1155 1160 1165
 Pro Val Ile Gly Ile Asn Thr Leu Ala Ala Asp Asp Val Ile Asn Ala
 1170 1175 1180
 Ala Glu Lys Gly Glu Asp Leu Leu Leu Ser Gly Thr Ser Asn Gln Pro
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 Glu Gly Thr Thr Ile Thr Val Asn Leu Asn Gly Ile Asn Tyr Ser Ala
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 Thr Thr Asp Ala Ser Gly Asn Trp Ser Val Thr Val Pro Ala Ser Ala
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 Val Ser Ala Leu Gly Glu Ala Asn Tyr Thr Val Thr Ala Ser Val Thr
 1235 1240 1245
 Asp Asn Val Gly Asn Ser Ala Ala Ala Thr His Asp Val Leu Val Asp
 1250 1255 1260
 Ser Ser Leu Pro Val Val Thr Leu Asn Asn Phe Ala Gly Asp Asn Ile
 1265 1270 1275 1280
 Val Asn Ala Ala Glu Val Ala Ala Gly Gln Thr Leu Thr Gly Lys Val
 1285 1290 1295
 Ser Asn Ala Ala Ser Gly Asp Thr Val Thr Ile Ile Leu Gly Gly Gln
 1300 1305 1310
 Thr Tyr Thr Ala Thr Val Gln Asp Asp Leu Thr Trp Ser Leu Pro Leu
 1315 1320 1325
 Thr Gln Ser Gln Leu Thr Ala Leu Gly Asn Gly Asp Leu Thr Val Ser
 1330 1335 1340
 Ala Ser Val Thr Asn Ala His Gly Asn Thr Gly Ser Ser Ser Leu Asp

1345		1350		1355		1360
Val Thr Ile Asp	Ala Gln Leu Pro Gly	Leu Arg Ile Asp Thr	Val Ala			
	1365	1370	1375			
Gly Asp Asp Val	Ile Asn Val Ile	Glu His Ala Gln Asn	Leu Val Ile			
	1380	1385	1390			
Ser Gly Thr Ser	Thr Asp Leu Ala Ala	Gly Ser Thr Val	Thr Val Thr			
	1395	1400	1405			
Ile Asn Gly Lys	Ser Tyr Ser Ala Ser	Val Gln Ala Asp	Gly Thr Trp			
	1410	1415	1420			
Gln Ala Ala Val	Pro Ala Ala Asp	Val Ser Arg Trp	Ala Asp Gly Ser			
1425	1430	1435	1440			
Leu Thr Ile Ser	Ala Ser Ala Gln Asp	Thr Ser Gly Asn	Pro Val Asn			
	1445	1450	1455			
Ile Gly Thr Val	Val Asp Val Asp	Leu Ala Pro Val	Ala Ile Ser Ile			
	1460	1465	1470			
Asn Thr Val Thr	Asp Asp Asn Val	Leu Asn Ala Ala	Glu Lys Gly Gln			
	1475	1480	1485			
Asn Leu Val Leu	Ser Gly Ser Ser	Ser Asn Val	Glu Ala Gly Gln Thr			
	1490	1495	1500			
Val Thr Ile Ile	Phe Ala Gly Lys Thr	Trp Thr Thr Val	Asp Ala			
1505	1510	1515	1520			
Asn Gly Asp Trp	Thr Cys Thr Val	Pro Ala Ala Asp	Leu Ser Gly Leu			
	1525	1530	1535			
Lys Asp Gly Glu	Ala Ser Val Gln	Val Ser Val Thr	Asn Val Asn Gly			
	1540	1545	1550			
Asn Ala Ala Ser	Ser Ser Gln Ala	Phe Ser Val Ala	Thr Ala Ala Pro			
	1555	1560	1565			
Ala Val Thr Ile	Asn Thr Ile Ser	Gly Asn Asn Met	Leu Asn Ala Ala			
	1570	1575	1580			
Glu Ala Ala Gln	Glu Leu Thr Leu	Ser Gly Thr Ser	Thr Ala Glu Ala			
1585	1590	1595	1600			
Gly Gln Thr Val	Thr Val Thr Phe	Asn Gly Asn Gln	Tyr Thr Ala Gln			
	1605	1610	1615			
Val Gln Ala Asn	Gly Ser Trp Thr	Leu Asp Val Pro	Ala Ala Asp Leu			
	1620	1625	1630			
Ala Gly Ile Ala	Asp Gly Ser Ala	Ala Val Thr Val	Thr Val Ser Asp			
	1635	1640	1645			
Lys Ala Gly Asn	Pro Ala Ser Ala	Gly Ala Ser Val	Leu Val Asp Thr			
	1650	1655	1660			
Thr Val Pro Gln	Ile Thr Phe Asp	Ile Val Ala Gly	Asp Asp Ile Val			
	1665	1670	1675			
Asn Ile Ala Glu	His Gly Gln Ala	Leu Ile Val Thr	Gly Lys Val Thr			
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Gly Ala Gln Ala	Gly Asp Val Ile	Thr Leu Thr Leu	Asn Gly Lys Asp			
	1700	1705	1710			
Tyr Thr Ala Met	Leu Asp Gly Ala	Gly Asn Trp Ser	Val Gly Val Pro			
	1715	1720	1725			
Ala Ala Asp Val	Gly Ala Leu Ala	Asn Gly Asp Gln	Thr Ile Ser Ala			
	1730	1735	1740			
Thr Val Thr Asp	Lys Ala Gly Asn	Ser Thr Ser Ala	Thr His Ala Phe			
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Gly Thr Ser Asn	Gln Pro Asp Gly	Thr Arg Ile Thr	Val Thr Leu Asn			
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Gly Ile Ser Tyr	Ala Ala Thr Thr	Asp Ala Ser Gly	Asn Trp Ser Val			
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Val	Thr	Ala	Ser	Val	Thr	Asp	Thr	Ala	Gly	Asn	Ser	Ala	Asn	Thr	Ser
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Ser	Trp	Ser	Val	Asn	Val	Ala	Ser	Asp	Val	Leu	Thr	Ala	Ile	Gly	Asn
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Ala	Gly	Asn	Pro	Val	Ser	Ile	Ser	His	Asp	Val	Lys	Val	Asp	Leu	Ala
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Thr	Val	Ala	Ile	Ser	Ile	Asp	Ala	Ile	Ala	Thr	Asp	Asp	Val	Ile	Asn
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Ala	Ala	Glu	Lys	Gly	Ala	Asp	Leu	Val	Leu	Ser	Gly	Ala	Thr	Thr	Asn
				2085				2090				2095			
Val	Glu	Glu	Asn	Gln	Thr	Val	Thr	Ile	Thr	Phe	Gly	Gly	Lys	Thr	Tyr
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Ser	Ala	Thr	Val	Asp	Ala	Ser	Gly	Asn	Trp	Thr	Ala	Thr	Val	Pro	Ser
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Ala	Asp	Leu	Gly	Ser	Leu	Lys	Asp	Gly	Asp	Ala	Ser	Val	Gln	Val	Ser
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Val	Thr	Asn	Val	Asn	Gly	Asn	Ser	Ala	Ser	Ala	Gly	Arg	Glu	Tyr	Ser
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Val	Asp	Tyr	Thr	Thr	Thr	Val	Gln	Ala	Asn	Gly	Ser	Trp	Ser	Val	Thr
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Glu	Ala	Gly	Asn	Thr	Val	Thr	Val	Ser	Val	Gly	Gly	His	Asn	Tyr	Thr																																
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Asp	Ala	Asn	Leu	Pro	Gly	Leu	Arg	Val	Asp	Thr	Val	Ala	Gly	Asp	Asp																																
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Val	Ile	Asn	Ser	Ile	Glu	His	Gly	Gln	Asn	Leu	Ile	Ile	Thr	Gly	Ser																																
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Ser	Asp	Gly	Leu	Thr	Ala	Gly	Thr	Ala	Leu	Thr	Val	Thr	Val	Asn	Gly																																
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Lys	Thr	Tyr	Ala	Ala	Thr	Val	Leu	Ala	Asp	Gly	Thr	Trp	Ser	Ala	Ala																																
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Ile	Pro	Ser	Ala	Asp	Val	Ser	Ala	Leu	Ala	Ala	Gly	Ala	Val	Thr	Val																																
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2675																2680																2685															
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Trp	Thr	Ala	Thr	Val	Pro	Ser	Ala	Asp	Leu	Ala	Gly	Leu	Lys	Asp	Gly																																
2725																2730																2735															
Asp	Ala	Ser	Val	Gln	Val	Ser	Val	Thr	Asn	Val	Asn	Gly	Asn	Ser	Ala																																
2740																274																															

Asn Gly Ser Trp Thr Leu Asn Val Pro Ala Ala Asp Leu Ala Gly Leu
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 Thr Asp Gly Ser Val Thr Val Thr Ala Ser Val Ser Asp Lys Ala Gly
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 Asn Pro Ala Ser Val Asp His Ala Leu Thr Val Asp Val Thr Val Pro
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 Ala Val Thr Ile His Thr Val Ala Gly Asp Asp Val Ile Asn Val Ala
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 Glu His Asn Gln Ala Gln Ile Ile Ser Gly Ser Ala Thr Gly Ala Ala
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 Ala Gly Asp Lys Val Thr Val Thr Ile Gly Gly Gln Thr Tyr Thr Thr
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 Val Leu Asp Ala Ala Gly Asn Trp Ser Val Gly Val Pro Ala Asn Val
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 Asp Ala Ala Gly Asn Thr Gly Ser Gly Met His Asn Val Thr Val Asp
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 Thr Gly Leu Pro Ser Val Ser Phe Asn Ala Ile Ser Asp Asp Asn Val
 2965 2970 2975
 Leu Asn Ala Val Glu Lys Gly Gln Asp Leu Ser Val Ser Gly Thr Ser
 2980 2985 2990
 Ala Asn Leu Ala Glu Gly Thr Gln Val Thr Val Thr Leu Asn Gly Lys
 2995 3000 3005
 Asn Tyr Thr Ala Thr Thr Ala Ala Asp Gly Thr Trp Ser Leu Thr Val
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 Pro Ala Ala Asp Leu Ala Gly Leu Gly Gln Ala Ser Tyr Thr Leu Asn
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 3045 3050 3055
 Leu Leu Val Asp Thr Ala Leu Pro Thr Val Thr Ile Asn Thr Val Ala
 3060 3065 3070
 Gly Asp Asn Val Ile Asn Ala Ala Glu Val Ala Ala Gly Gln Thr Leu
 3075 3080 3085
 Ser Gly Thr Val Ala Asn Ala Glu Ala Gly Asn Thr Val Thr Val Ala
 3090 3095 3100
 Ile Gly Gly His Ser Tyr Thr Ala Thr Val Gln Asn Asn Leu Ser Trp
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 Ser Val Asn Val Pro Ser Asp Val Leu Thr Ala Leu Gly Asn Gly Ser
 3125 3130 3135
 Leu Ser Val Thr Ala Thr Val Thr Asn Gly His Gly Asn Thr Gly Thr
 3140 3145 3150
 Gly Glu Arg Glu Ile Ala Ile Asp Ala Asn Leu Pro Gly Leu Arg Val
 3155 3160 3165
 Asp Thr Val Ala Gly Asp Asp Val Val Asn Thr Ile Glu His Ala Gln
 3170 3175 3180
 Asn Leu Ile Val Ser Gly Thr Ser Asp Gly Leu Ala Pro Gly Thr Ala
 3185 3190 3195 3200
 Leu Thr Val Thr Val Asn Gly Lys Asp Tyr Ala Ala Thr Val Leu Ala
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 Asp Gly Thr Trp Arg Ala Ala Ile Pro Ser Thr Asp Val Ser Ala Trp
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 Pro Glu Gly Thr Val Lys Ile Ser Val Thr Gly Asp Ser Ala Ala Gly
 3235 3240 3245
 Asn Pro Ile Thr Ile Ser His Asp Val Thr Val Asp Leu Ala Thr Val
 3250 3255 3260
 Ala Ile Ser Ile Asn Ala Leu Ala Thr Asp Asp Val Ile Asn Ala Ala
 3265 3270 3275 3280
 Glu Lys Gly Ala Asp Leu Val Leu Ser Gly Val Thr Thr Asn Val Glu
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 Ala Gly Gln Thr Val Thr Ile Ser Leu Asn Gly Arg Ile Tyr Thr Thr

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Leu Ala Gly	Leu Lys Asp Gly Asp	Ala Ser Val Gln	Val Ser Val Thr		
3330		3335	3340		
Asn Val Asn	Gly Asn Ser Ala Ser	Ala Gly Arg Glu	Tyr Ser Val Asp		
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Ala Thr Ala	Pro Ser Val Thr	Ile Asn Thr	Ile Ala Thr	Asp Asp	Ile
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Leu Asn Ala	Thr Glu Ala Gln	Ser Asp Leu	Ala Ile Ser	Gly Thr	Ser
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Thr Ala Glu	Ala Gly Gln Thr	Val Thr Val	Ser Leu Asn	Gly Lys	Asp
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Phe Thr Thr	Thr Val Ser Ala	Asn Gly Ser Trp	Thr Thr	Leu Asn	Val Pro
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Ala Ala Asp	Leu Ala Gly Leu	Thr Asp Gly	Ser Val Thr	Val Thr	Ala
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Ser Val Ser	Asp Lys Ala Gly	Asn Pro Ala	Ser Val Asp	His Thr	Leu
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Thr Val Asp	Val Thr Val Pro	Ala Val Thr	Ile His Thr	Val Ala	Gly
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Asp Asp Val	Ile Asn Val Ala	Glu His Asn	Gln Ala Gln	Ile Val	Ser
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Gly Ser Ala	Thr Gly Ala Ala	Ala Gly Asp	Lys Val Thr	Val Thr	Ile
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Gly Gly Gln	Thr Tyr Thr Thr	Val Leu Asp	Ala Ala Gly	Asn Trp	Ser
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Val Gly Val	Pro Ala Asn Val	Ile Ser Gly	Leu Ser Asp	Gly Thr	Ala
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Thr Val Ser	Val Ser Val Thr	Asp Ala Ala	Gly Asn Thr	Gly Ser	Gly
	3540		3545		3550
Thr His Asn	Val Thr Val Asp	Thr Gly Leu	Pro Ser Val	Ser Phe	Asn
	3555		3560		3565
Ala Ile Ser	Asp Asp Asn Val	Leu Asn Ala	Val Glu Lys	Gly Gln	Asp
	3570		3575		3580
Leu Arg Val	Ser Gly Thr Ser	Ala Asn Leu	Ala Glu Gly	Thr Val	Val
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Ala Val Thr	Leu Asn Gly	Lys Asn Tyr	Thr Ala Thr	Thr Ala	Asp
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Gly Thr Trp	Ser Leu Thr Val	Pro Ala Ala	Asp Leu Thr	Gly Leu	Gly
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Gln Ala Ser	Tyr Thr Leu Asn	Ala Thr Ala	Thr Asn Gly	Val Gly	Asn
	3635		3640		3645
Ser Val Ser	Asn Thr Ala Asn	Leu Leu Val	Asp Thr Ala	Leu Pro	Thr
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Val Thr Ile	Asn Thr Ile Ala	Gly Asp Asn	Val Ile Asn	Ala Ala	Glu
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Val Ala Ala	Gly Gln Thr Leu	Ser Gly Lys	Val Ala Asn	Ala Glu	Ala
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Gly Asn Thr	Val Thr Val Thr	Ile Gly Gly	Asn Thr Tyr	Thr Ala	Thr
	3700		3705		3710
Val Gln Ser	Asp Leu Thr Trp	Ser Val Asn	Val Pro Glu	Ser Val	Leu
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Thr Ala Leu	Gly Asn Gly Asp	Leu Thr Val	Ser Ala Thr	Val Thr	Asn
	3730		3735		3740
Gly His Gly	Asn Thr Gly Thr	Gly Glu Arg	Asp Ile Thr	Ile Asp	Ala
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Ser Leu Pro	Gly Leu Arg	Val Asn Thr	Val Ala Gly	Asp Asp	Val Ile
	3765		3770		3775
Asn Ser Ile	Glu His Gly Gln	Asn Leu Ile	Val Ser Gly	Thr Ser	Asp
	3780		3785		3790

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 Tyr Ala Ala Ser Val Leu Ala Asp Gly Ser Trp Asn Ala Ala Ile Pro
 3810 3815 3820
 Ala Ala Asp Val Ala Ala Phe Ala Ala Gly Thr Val Thr Val Thr Val
 3825 3830 3835 3840
 Ala Gly Gln Ser Ala Ala Gly Asn Pro Val Thr Ile Ser His Asp Val
 3845 3850 3855
 Thr Val Asp Leu Ala Ala Val Ala Ile Ser Ile Asp Ala Ile Ala Thr
 3860 3865 3870
 Asp Asp Val Ile Asn Ala Ala Glu Lys Gly Val Asp Leu Val Leu Ser
 3875 3880 3885
 Gly Ser Thr Ser Asn Val Glu Glu Asn Gln Thr Val Thr Val Thr Phe
 3890 3895 3900
 Gly Gly Lys Thr Tyr Thr Ala Lys Val Asp Ala Asp Gly Asn Trp Thr
 3905 3910 3915 3920
 Ala Thr Val Pro Ser Ala Asp Leu Ala Gly Leu Lys Asp Gly Asp Ala
 3925 3930 3935
 Ser Val Gln Val Ser Val Thr Asn Ala His Gly Asn Ser Ala Ser Ala
 3940 3945 3950
 Gly Arg Glu Tyr Ser Val Asp Ala Thr Ala Pro Thr Val Thr Ile Asp
 3955 3960 3965
 Thr Val Ala Gly Asp Asn Val Ile Asn Gly Ser Glu Ala Ala Ala Gly
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 Val Asp Ile Ser Gly Thr Thr Thr Ala Glu Val Gly Gln Thr Val Thr
 3985 3990 3995 4000
 Val Thr Leu Gly Gly Asn Ser Tyr Thr Ala Gln Val Gln Gln Gly Gly
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 Val Trp Ser Val Asn Val Pro Gly Thr Asp Leu Ser Ala Leu Ala Asp
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 Asn Gly Tyr Thr Val Gln Ala Ser Val Ser Asp Ala Ala Gly Asn Pro
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 Gly Ser Ala Gly Lys Ala Ile Thr Leu Asp Thr Thr Pro Pro Thr Val
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 Ser Phe Asn Val Val Ala Gly Asp Asp Val Ile Asn Ser Val Glu His
 4065 4070 4075 4080
 Gly Gln Ala Gln Ile Val Ser Gly Thr Ala Thr Gly Ala Ser Val Gly
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 Asp Lys Val Val Ile Thr Ile Gly Ser Asn Gln Tyr Thr Thr Val
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 Asp Ala Ser Gly Lys Trp Ser Val Gly Val Pro Ala Ser Val Ile Ser
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 Ala Leu Thr Asp Gly Thr Val Thr Leu Ser Ala Thr Ile Thr Asp Ser
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 Ser Val Ala Leu Thr Val Asn Thr Leu Ser Gly Asp Asp Val Ile Asn
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 Ala Ala Glu Ala Gly Ala Ser Leu Val Ile Asn Gly Ser Ser Ala Gln
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 Phe Ala Ser Gly Thr Gln Val Thr Ile Thr Leu Asn Gly Lys Ser Tyr
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 Thr Ala Thr Ile Gln Ser Asp Gly Ser Trp Thr Thr Thr Val Pro Ala
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 Ala Asp Val Gly Thr Leu Ala Asp Gly Ala Ser Tyr Gln Val Ser Val
 4225 4230 4235 4240
 Ser Ala Gln Asp Ser Ala Gly Asn Ser Ala Ser Ala Thr His Thr Ile
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 Ser Val Asp Thr Thr Ala Pro Val Ile Ser Val Asn Thr Leu Ser Gly
 4260 4265 4270
 Asp Asp Val Leu Asn Ala Ala Glu Ala Gln Gln Pro Leu Thr Val His

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Gly	Ser	Ser	Ser	Ala	Glu	Ala	Gly	Gln	Thr	Val	Thr	Val	Thr	Leu	Gly	
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Gly	Lys	Thr	Tyr	Thr	Ala	Leu	Val	Gly	Ser	Asp	Gly	Thr	Trp	Thr	Leu	
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Asp	Val	Pro	Ala	Ala	Asp	Leu	Ala	Ala	Leu	Ser	Gln	Gly	Ala	Leu	Thr	
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His	Thr	Leu	Thr	Val	Asp	Thr	Ile	Ala	Pro	Ala	Val	Thr	Ile	Ser	Thr	
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Val	Ala	Asp	Asp	Asp	Ile	Val	Asn	Asn	Ala	Glu	Gln	Leu	Ala	Gly	Gln	
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Thr	Ile	Ser	Gly	Thr	Thr	Thr	Ala	Glu	Gln	Gly	Gln	Thr	Val	Thr	Val	
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Val	Thr	Ile	Thr	Leu	Asn	Gly	Lys	Thr	Tyr	Thr	Ala	Thr	Val	Gln	Asn	
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Asp	Gly	Thr	Trp	Ser	Tyr	Thr	Val	Gly	Ser	Ala	Asp	Val	Thr	Ala	Leu	
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Ala	Asp	Gly	Gly	Ser	Tyr	Val	Ile	Asn	Ala	Gln	Val	Ser	Asn	Ala	Ile	
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Gly	Asn	Ser	Val	Ser	Asp	Asn	His	Thr	Val	Thr	Val	Asp	Leu	Thr	Ala	
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Pro	Ser	Met	Gly	Ile	Ser	Ile	Asp	Ser	Leu	Gln	Asn	Asp	Thr	Gly	Leu	
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Ser	Leu	Thr	Ala	Gln	Leu	Gly	Asn	Asn	Glu	Lys	Ala	Gln	Ile	Ser	Leu	
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Ala Pro Asp Ala Ser Lys Thr Ile Ala Ile Asp Ser Ile Ser Asp Asp
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 Thr Gly Leu Ser Ser Ser Asp Phe Ile Thr Arg Asp Thr Ser Leu Thr
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 Leu His Gly Ser Leu Gly Ala Thr Leu Ala Asp Gly Glu Tyr Ala Gln
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 Asp Tyr Tyr Val Arg Val Val Asp Ala Ala Gly Asn Val Gly Ala Ser
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 Thr Tyr Thr Ser Glu Thr Gly Gly Ala Val Val Val Asp Pro Asp Asn
 5235 5240 5245
 Asn Thr Trp Tyr Leu Gln Leu Pro Asp Gly Asp Ala Leu Ser Val Lys

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Thr Ala Gly Leu Thr	Thr Gly Ser Leu Ile Val	Gly Ser Glu Glu Ser
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Leu Thr Pro Ala Trp	Ser Phe Thr Ala Ala	Asn Tyr Ser Tyr Ser Ala
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Ser Tyr Met Leu Asp	Ser Asp Gly Leu Trp Thr	Ile Met Ala Asn Gln
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Gln Phe Ala Ser Ala	Asn Thr Ser Ser Arg	Asn Ala Tyr Thr Val Ser
	5330	5335
Gly Asn Phe Ser Met	Thr Gly Ser Tyr Thr	Thr Gly Thr Tyr Ala Asp
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Ile Asn Arg Asp Gly	Leu Ala Asp Val Leu	Ala Glu Gly Thr Ser Tyr
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Gly Thr Ser Gln Gly	Gly Val Leu Met Leu	Asn Asp Gly Ser Gly Asn
	5555	5560
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Gly Ala Gln Asp Leu	Leu Ile Phe Arg Gln	Asn Gly Thr Val Leu Leu
	5650	5655
Glu Arg Asn Thr Asn	Thr Val Ala Pro Gly	Thr Ala Leu His Leu Lys
5665	5670	5675
Ile Val Asp Ser Glu	Gly Ile Asn Ala Phe	Phe Gly Asn Thr Val Gln
	5685	5690
Leu Tyr Asn Ala Ala	Gly Gln Leu Val Ala	Ser Glu Ile Ile Asn Ala
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Gln Ser Gly Ile Gly	Ile Asn Asp Ser Ser	Ser Leu Ile Ser Phe Tyr
	5715	5720
Gly Leu Asp Pro Ser	Glu Thr Tyr His Ala	Val Leu Val Arg Ala Val
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		5740

Asn Gly Val Ser Ser Asn Val Thr Trp Asp Gly Leu Thr Ala Gly Asp
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 Gly Lys Glu Ser Tyr Ala Leu Thr Ala Glu Ala Ala Thr Gly Gly His
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 Gln Gly Thr Leu Thr Gly Thr Gly Tyr Asn Asp Thr Phe Ile Ala Glu
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<211> 399

<212> PRT

<213> Enterobacter cloacae

<400> 8403

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 Arg Leu Lys Glu Pro Arg Leu Pro Arg Ser Ser Leu Val Ala Trp Ser
 20 25 30
 Leu Phe Ala Leu Leu Val Val Phe Ile Thr Trp Ala Ser Leu Phe Gln
 35 40 45
 Leu Asp Glu Val Thr Thr Gly Ser Gly Lys Val Ile Pro Ser Ser His
 50 55 60
 Glu Gln Val Ile Gln Ser Leu Glu Gly Gly Ile Ile His Ser Leu Met
 65 70 75 80
 Val Arg Glu Gly Asp Ile Val Glu Arg Gly Gln Gln Leu Ala Gln Leu
 85 90 95
 Asp Arg Thr Lys Thr Glu Ser Ser Val Leu Glu Ser Glu Ser Arg Leu
 100 105 110
 Asn Ala Ala Met Ala Thr Ala Ala Arg Leu Asn Ala Glu Val Asn Asp
 115 120 125
 Thr Gly Leu Thr Phe Pro Ala Glu Leu Asp Asp Asp Val Glu Leu Val
 130 135 140
 Lys Gln Glu Thr Ala Leu Tyr Gln Ser Arg Arg Glu Ser Leu Glu Lys
 145 150 155 160

Gly Leu Ala Gly Leu Arg Gln Gly Ala Asp Leu Val Gln Arg Glu Leu
 165 170 175
 Ala Leu Thr Arg Pro Leu Val Thr Gln Gly Ala Ala Ser Lys Val Glu
 180 185 190
 Val Leu Arg Leu Glu Arg Gln Lys Asn Glu Leu Glu Ser Lys Ile Thr
 195 200 205
 Glu Met Lys Asn Gln Tyr Tyr Val Arg Ala Arg Glu Glu Leu Ala Lys
 210 215 220
 Ala Asn Ala Glu Ile Glu Ala Gln Arg Ser Val Met Lys Gly Arg Glu
 225 230 235 240
 Asp Ser Leu Thr Arg Leu Thr Phe Asn Ala Pro Val Arg Gly Ile Val
 245 250 255
 Lys Asp Ile Asp Val Thr Thr Val Gly Val Ile Pro Pro Asn Gly
 260 265 270
 Lys Leu Met Ser Leu Val Pro Leu Asp Asp Gln Met Val Ile Glu Ala
 275 280 285
 Lys Ile Ser Pro Arg Asp Val Ala Phe Ile His Pro Gly Gln Lys Ala
 290 295 300
 Leu Val Lys Ile Thr Ala Tyr Asp Tyr Ser Ile Tyr Gly Gly Leu Glu
 305 310 315 320
 Gly Glu Val Thr Met Ile Ser Pro Asp Thr Leu Gln Asp Glu Val Lys
 325 330 335
 Arg Asp Val Tyr Tyr Arg Val Tyr Ile Arg Thr Asp Ser Asn His
 340 345 350
 Leu Thr Asn Arg Gln Gly Lys Ala Phe Pro Val Phe Pro Gly Met Ile
 355 360 365
 Ala Thr Val Asp Ile Lys Thr Gly Ser Lys Ser Val Ile Asp Tyr Leu
 370 375 380
 Leu Lys Pro Leu Asn Lys Ala Lys Glu Ala Leu Arg Glu Arg
 385 390 395

<210> 8404

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 8404

Arg Lys Asn Val Pro Val His Asn Ile Asp Asn Gly Leu Leu Thr Lys
 1 5 10 15
 Gln Gly Ala Val Lys Leu Phe Asn Ala Thr Lys Ser Ile Gly Phe Asn
 20 25 30
 Tyr Arg Trp Glu Tyr Tyr Leu His Ser Gln Glu Gln Val Met Ser Gln
 35 40 45
 Asn Leu Pro Phe Ile Gln Gly Thr Cys Tyr Lys Gln Arg Phe Val Ile
 50 55 60
 Ser Ala Cys Gly Phe Thr Phe Glu Gly Tyr Ser Leu Leu Leu Lys Ser
 65 70 75 80
 Arg Gly Val Asn Ala Thr Arg Leu His Phe Glu Glu Asp Glu Val Cys
 85 90 95
 Ser Gly Asp Val His Lys Met Met Gln Asn Gln Pro Pro Glu Val Ala
 100 105 110
 Val Phe Leu Gly Arg Asp Val Ala Ala Phe Leu Glu Ser Leu Lys Gln
 115 120 125
 Leu Val Ser Val Leu Asn Ala Leu Pro Val Ile Cys Ser Val Thr Leu
 130 135 140
 Tyr Gly Ala Ile Pro Glu Arg Trp Leu Tyr Ala Thr Leu Cys Ser Leu
 145 150 155 160
 Val Asn Asn Thr Lys Ser Leu Ser Met Ile Arg Ile Ala Asn Ile Ser
 165 170 175
 Asp Val Met Asp Cys Ala Asp Asn Ile Tyr Asp Val His Thr Asp Ser
 180 185 190

Ser Arg Ile Leu Arg Asp Gly Pro Glu Lys Glu Gly Lys Glu Ser Leu
 195 200 205
 Asn Gly Leu Thr Lys Arg Glu Leu Thr Val Leu Leu Asn Phe Tyr Arg
 210 215 220
 Gly Ile Ser Ile Lys Glu Gln Ser Ala Arg Leu Gly Leu Ser Asp Lys
 225 230 235 240
 Thr Ile Tyr Thr His Arg Lys Lys Gly Val Gly Lys Ile Tyr Pro Asn
 245 250 255
 Gln Gly Phe Gly
 260

<210> 8405

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 8405

Asn Arg Val Ile Phe Ser Gly Gly Leu Met Ala Asp Phe Thr Leu Ser
 1 5 10 15
 Lys Pro Ile Phe Gly Gly Lys Gln Pro Lys Thr Ser Thr Ala Gly Asn
 20 25 30
 Ile Ala Tyr Ala Leu Phe Val Leu Phe Cys Phe Trp Ala Gly Thr Gln
 35 40 45
 Leu Leu Asn Met Leu Val His Ala Pro Gly Val Tyr Glu His Leu Met
 50 55 60
 Gln Val Gln Asp Thr Gly Arg Pro Arg Val Glu Phe Gly Leu Gly Val
 65 70 75 80
 Ser Thr Val Phe Gly Leu Ile Pro Phe Leu Ala Gly Ser Met Val Leu
 85 90 95
 Gly Val Ile Ala Leu Val Leu Arg Trp Arg Asn Arg His
 100 105 110

<210> 8406

<211> 445

<212> PRT

<213> Enterobacter cloacae

<400> 8406

Arg Leu Ser Tyr Gly Arg Cys His Lys Met Gly Ala Thr Leu Gln Val
 1 5 10 15
 Asn Cys Ser Asn Leu Pro Thr Val Thr Phe Phe Ser Leu Ser Leu Cys
 20 25 30
 Lys Ser Gly His Cys Pro Thr Pro Ile Ser Ser Ile Thr Thr Arg Asn
 35 40 45
 Phe Pro Tyr Ser Leu Asp Gly Cys Phe Ser Leu Lys Arg Cys Leu Leu
 50 55 60
 Ser Ile Ala Ala Leu Cys Ala Val Ser Leu Ser Thr Ala Gln Ala Ala
 65 70 75 80
 Gln Pro Leu Thr Ala Pro Val Leu Ala Ser Asp Ile Ala Asp Arg Tyr
 85 90 95
 Ala Asn Leu Ile Tyr Tyr Gly Ser Gly Ala Thr Gly Met Ala Leu Val
 100 105 110
 Val Ile Asp Gly Asn Gln Arg Val Phe Arg Ser Phe Gly Glu Thr Arg
 115 120 125
 Pro Gly Asn Asn Val Arg Pro Gln Leu Asp Ser Val Ile Arg Val Ala
 130 135 140
 Ser Ile Thr Lys Leu Met Thr Ser Glu Met Leu Val Lys Leu Leu Asp
 145 150 155 160
 Gln Gly Val Val Lys Leu Asp Asp Pro Leu Ser Lys Tyr Ala Pro Pro
 165 170 175
 Gly Ala Arg Val Pro Thr Tyr Gln Gly Thr Pro Ile Arg Leu Val Asn


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<210> 8407
<211> 576
<212> PRT
<213> Enterobacter cloacae
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<400> 8407															
Ser	Met	Phe	Ser	Leu	Asp	Ser	Val	Leu	Asp	Asp	Leu	Trp	Pro	Gln	Ala
1				5					10					15	
Arg	Pro	Ala	Pro	Trp	Gln	Lys	Ser	Leu	Leu	Lys	Arg	Leu	Leu	His	Glu
			20					25					30		
Asp	Glu	Phe	Gln	Gln	Phe	Ala	Ala	Ser	His	Arg	His	Leu	Lys	Gly	Leu
		35					40					45			
Asp	Met	Val	Asp	Gln	Val	Leu	Glu	His	Leu	Asp	Ile	His	Cys	Ser	Val
	50					55					60				
Ser	Ala	Arg	Asp	Leu	Glu	Gln	Ile	Pro	Glu	His	Gly	Pro	Leu	Ile	Val
65				70						75				80	
Ile	Ala	Asn	His	Pro	Thr	Gly	Thr	Leu	Asp	Gly	Leu	Ala	Leu	Leu	Tyr
				85					90					95	
Ala	Val	Ser	Arg	Val	Arg	Arg	Asp	Val	Arg	Val	Val	Thr	Asn	Arg	Met
			100					105					110		
Leu	Ser	His	Leu	Glu	Pro	Leu	Ser	Ser	Leu	Phe	Ile	Pro	Val	Asp	Asn
		115					120					125			
Met	Gly	Gly	Arg	Thr	Ala	Lys	Ala	Ser	Leu	Ile	Gln	Met	Glu	Gln	His
	130					135					140				
Leu	Gln	Asn	Ala	Gly	Val	Leu	Ile	Phe	Phe	Pro	Ala	Gly	Glu	Val	Ser
145				150						155				160	
Arg	Pro	Thr	Arg	Lys	Gly	Ile	Arg	Asp	Lys	Lys	Trp	His	Pro	Gly	Phe

Ile	Lys	Leu	Ala	165	Gly	Lys	Leu	Arg	Val	170	Pro	Leu	Leu	Pro	Val	175	His	Ile
			180						185						190			
Gln	Ala	His	Asn	Ser	Leu	Leu	Phe	Tyr	Ala	Ser	Thr	Leu	Val	Ser	Pro			
		195					200						205					
Thr	Val	Ser	Met	Leu	Leu	Leu	Met	Gln	Gln	Met	Phe	Arg	Arg	Arg	His			
	210					215					220							
Ser	Gln	Leu	Pro	Ile	Lys	Ile	Gly	Gln	Gln	Ile	Ala	Trp	Asn	Asp	Arg			
225					230					235					240			
Phe	Ser	Ser	Thr	Leu	Ser	Ser	Arg	Glu	Met	Ala	Glu	Gln	Cys	Arg	Gln			
			245						250						255			
His	Val	Ile	Arg	Leu	Gly	Lys	Gly	Leu	Pro	Gly	Val	Phe	Lys	Thr	Gln			
			260					265					270					
Cys	Ala	Ile	Ala	Arg	Pro	Glu	Asp	Arg	Ala	Thr	Leu	Lys	Arg	Glu	Leu			
		275					280					285						
Ala	Gln	Ala	Glu	Cys	Leu	Gly	Lys	Thr	Ser	Asp	Gly	Lys	Ala	Ile	Tyr			
	290					295					300							
Leu	Trp	Gln	Arg	Asn	Gly	Gln	Glu	Glu	Ala	Pro	Leu	Leu	Arg	Glu	Leu			
305					310					315					320			
Gly	Arg	Leu	Arg	Glu	Ile	Ala	Phe	Arg	Ala	Val	Glu	Glu	Gly	Ser	Gly			
			325						330					335				
Lys	Arg	Arg	Asp	Thr	Asp	Ser	Tyr	Asp	Asp	Asp	Tyr	Leu	His	Leu	Ile			
			340					345					350					
Leu	Trp	Asp	Asp	Asp	Asp	Leu	Glu	Ile	Val	Gly	Ala	Tyr	Arg	Phe	Met			
		355					360					365						
Pro	Thr	Ala	Met	Gln	Val	Glu	Lys	Arg	Gly	Val	Glu	Gly	Leu	Tyr	Ser			
	370					375					380							
Tyr	Ser	Leu	Phe	His	Tyr	Asp	Glu	Lys	Met	Gln	Asp	Ile	Leu	Glu	His			
385					390					395					400			
Gly	Ile	Glu	Leu	Gly	Arg	Ser	Phe	Ile	Gln	Pro	Arg	Tyr	Trp	Gly	Arg			
			405						410					415				
Arg	Gly	Leu	Asp	Tyr	Leu	Trp	Ser	Gly	Ile	Gly	Ala	Tyr	Leu	Ala	Arg			
			420					425					430					
Tyr	Pro	His	Tyr	Arg	Tyr	Leu	Phe	Gly	Pro	Val	Ser	Ile	Ser	Gly	Gly			
		435					440					445						
Leu	Pro	Pro	Ala	Ala	Arg	Asp	Leu	Leu	Val	Ala	Phe	Tyr	Arg	Leu	Trp			
	450					455					460							
Phe	Pro	Ala	Thr	His	Pro	Leu	Ala	Ala	Ser	Arg	Gln	Pro	Tyr	Pro	Ala			
465					470					475					480			
Ser	Leu	Pro	Asp	Val	Leu	Ala	Gln	Phe	Gly	Gly	Val	Asp	Tyr	Val	Asp			
			485						490					495				
Asp	Leu	Thr	Lys	Leu	Lys	Ser	Leu	Leu	Gly	Asn	Leu	Gly	Cys	Gly	Ile			
			500					505					510					
Pro	Pro	Leu	Tyr	Lys	Gln	Tyr	Ser	Glu	Leu	Cys	Glu	Pro	Gly	Gly	Val			
		515					520					525						
Gln	Phe	Val	Asp	Phe	Gly	Ser	Asp	Pro	Ala	Phe	Asn	Asn	Cys	Ile	Asp			
	530					535					540							
Gly	Leu	Val	Leu	Val	Asp	Leu	Cys	Tyr	Leu	Lys	Ala	Asn	Arg	Tyr	Gln			
545					550					555					560			
Arg	Tyr	Ile	Glu	Ala	His	Leu	Ile	Pro	Ser	Pro	Leu	Pro	Ser	Pro				
			565					570						575				

<210> 8408

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 8408

Arg	Arg	Arg	Asn	Thr	Lys	Cys	Asp	Ala	Gln	Met	Leu	Ile	His	Thr	Ala
1			5					10					15		
Thr	Thr	Ala	Lys	Pro	Glu	Met	Ala	Asp	Ser	Ala	Thr	Asn	Thr	Val	Ser

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<210> 8409
<211> 385
<212> PRT
<213> Enterobacter cloacae
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Ile	Ser	Ser	Ile	Val	Asp	Thr	Val	Ser	Ser	Ser	Pro	Gly	Leu	Thr	Met
1				5					10					15	
Arg	Phe	Asn	Gly	Leu	Thr	Lys	Gly	Phe	Phe	Ile	Leu	Ile	Leu	Ala	Leu
			20					25					30		
Val	Thr	Trp	Ala	Phe	Phe	Asp	Val	Leu	Ser	Pro	Tyr	Phe	Ser	Ala	Ile
			35				40					45			
Leu	Trp	Ala	Ala	Ile	Leu	Thr	Ile	Ile	Phe	Asn	Pro	Val	Lys	Asn	Lys
			50			55				60					
Leu	Arg	Thr	Ala	Leu	Gly	Asp	Arg	Asn	Gly	Leu	Ala	Ser	Leu	Leu	Thr
65					70					75					80
Leu	Gly	Ile	Ile	Cys	Leu	Ile	Val	Phe	Ile	Pro	Leu	Met	Val	Ile	Leu
				85					90					95	
Ser	Ser	Leu	Ala	Val	Glu	Leu	Asn	Met	Val	Tyr	Thr	Lys	Leu	Gln	Gln
			100					105					110		
Asn	Asn	Thr	Gln	Phe	Pro	Glu	Val	Ile	Ala	Gly	Ile	Phe	Asn	Arg	Leu
			115				120					125			
Pro	Asp	Trp	Ala	Ser	Gly	Phe	Leu	Ala	Asp	His	Asn	Leu	Thr	Asn	Ala
			130			135					140				
Ala	Gln	Ile	Gln	Lys	Lys	Leu	Ser	Asp	Val	Ala	Leu	Gln	Gly	Gly	Gln

145					150					155					160
Tyr	Leu	Ala	Gly	Ser	Ala	Phe	Leu	Ile	Gly	Lys	Gly	Thr	Phe	Gly	Phe
				165					170					175	
Ala	Ile	Ser	Phe	Gly	Ile	Met	Leu	Tyr	Leu	Leu	Phe	Phe	Leu	Leu	Lys
			180					185					190		
Asp	Gly	Pro	Tyr	Leu	Val	Arg	Gln	Ile	Leu	Asp	Ser	Leu	Pro	Leu	Ser
		195					200					205			
Asp	Phe	Val	Lys	Gln	His	Leu	Phe	Ala	Lys	Phe	Val	Gly	Val	Ser	Arg
	210					215					220				
Ala	Thr	Val	Lys	Gly	Thr	Ala	Val	Val	Ala	Val	Val	Gln	Gly	Thr	Leu
225					230				235						240
Gly	Gly	Ile	Ala	Phe	Ala	Ile	Val	Gly	Ile	Asp	Gly	Ser	Val	Leu	Trp
			245					250						255	
Gly	Ala	Leu	Met	Ala	Phe	Leu	Ser	Leu	Val	Pro	Ala	Val	Gly	Ser	Ala
		260					265						270		
Ile	Val	Trp	Val	Pro	Ala	Ala	Ile	Phe	Leu	Phe	Ala	Thr	His	Gln	Leu
	275					280						285			
Trp	Gln	Gly	Leu	Phe	Ile	Val	Gly	Phe	Phe	Val	Ile	Ile	Val	Gly	Leu
	290					295				300					
Val	Asp	Asn	Leu	Leu	Arg	Pro	Leu	Leu	Val	Gly	Lys	Asp	Thr	Lys	Met
305					310				315						320
Pro	Asp	Tyr	Leu	Ile	Leu	Ile	Thr	Thr	Leu	Gly	Gly	Met	Glu	Leu	Tyr
			325					330					335		
Gly	Ile	Asn	Gly	Phe	Val	Ile	Gly	Pro	Leu	Ile	Ala	Ala	Leu	Phe	Ile
		340					345					350			
Ala	Cys	Trp	Asn	Leu	Phe	Ser	Gly	Arg	Asp	His	Ala	Gly	Asn	Ala	Glu
	355					360					365				
Glu	Leu	Asp	Ala	Asp	Phe	Ile	Glu	Glu	Gly	Lys	Asn	Pro	Pro	Asp	Leu
	370					375					380				

385

<210> 8410

<211> 607

<212> PRT

<213> Enterobacter cloacae

<400> 8410

Thr	Leu	Phe	His	Ile	Cys	Arg	Arg	Arg	Ile	Gln	Gln	Val	Arg	Ile	Ala
1			5					10						15	
Thr	Ile	Thr	Asn	Trp	Ala	Tyr	Gly	Val	Thr	Val	Cys	Leu	Thr	Ile	Ala
		20					25					30			
Ser	Gly	Ile	Val	Met	Leu	Met	Ala	Ser	His	Ala	Asp	Asn	Val	Glu	Arg
	35					40					45				
Gln	Ala	Val	Lys	Gln	Arg	Gln	Ile	Phe	Asp	Gln	Leu	Thr	Glu	Glu	Ile
	50					55				60					
Glu	Ala	Glu	Thr	Trp	Met	Leu	Ser	Asp	Leu	Ala	Arg	Leu	Tyr	Ala	Ile
65				70				75						80	
Lys	Lys	Glu	Pro	Asp	Val	Leu	Lys	Thr	Tyr	Gln	Ala	Lys	Glu	Gly	Glu
			85					90					95		
Leu	Lys	Asn	Ile	Glu	Arg	Lys	Leu	Gly	Gln	Leu	Lys	Asp	Thr	Gly	Ala
		100					105					110			
Thr	Gly	Glu	Glu	Leu	Ala	Leu	Leu	Tyr	Glu	Gly	Leu	Lys	Ile	Val	Asp
	115					120					125				
Asp	Leu	Gln	Asp	Glu	Gln	Gln	Ala	Ala	Ile	Ala	Ser	Val	Ala	Arg	Gly
	130				135						140				
Glu	Glu	Gln	Gln	Ala	Ile	Ala	Leu	Leu	Phe	Gly	Lys	Ile	Tyr	Glu	Leu
145				150					155					160	
Glu	Met	Glu	Arg	Ala	Gln	Ser	Lys	Ile	Asp	His	Phe	Arg	Val	Leu	Leu
			165					170					175		
Asp	Lys	Arg	Ile	Ile	Ala	Asp	Val	Gln	Ala	Ala	Thr	Asn	Thr	Ser	Lys

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<210> 8411
<211> 263
<212> PRT
<213> Enterobacter cloacae
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Thr Thr Phe Ala Leu Ser Leu Ile Ile Val Glu Glu Arg Met Met Asp

1				5				10				15			
Ile	Pro	Arg	Ile	Phe	Thr	Val	Ser	Glu	Ser	Glu	His	Arg	Ile	His	Asn
			20					25					30		
Pro	Phe	Thr	Glu	Glu	Lys	Tyr	Ala	Thr	Leu	Gly	Arg	Val	Leu	Arg	Met
		35					40					45			
Lys	Pro	Gly	Thr	Arg	Ile	Leu	Asp	Leu	Gly	Ser	Gly	Ser	Gly	Glu	Met
	50					55					60				
Leu	Cys	Thr	Trp	Ala	Arg	Asp	Tyr	Gly	Ile	Thr	Gly	Thr	Gly	Ile	Asp
65					70					75				80	
Met	Ser	Gln	Leu	Phe	Thr	Ala	Gln	Ala	Thr	Leu	Arg	Ala	Glu	Glu	Leu
				85					90					95	
Gly	Val	Ser	Glu	Arg	Val	His	Phe	Ile	His	Asn	Asp	Ala	Ala	Gly	Tyr
			100					105					110		
Val	Ala	Asn	Glu	Lys	Cys	Asp	Val	Ala	Ala	Cys	Val	Gly	Ala	Thr	Trp
		115					120					125			
Ile	Ala	Gly	Gly	Val	Ala	Gly	Thr	Met	Asp	Leu	Leu	Ala	Lys	Ser	Leu
	130					135					140				
Lys	Pro	Gly	Gly	Ile	Met	Leu	Ile	Gly	Glu	Pro	Tyr	Trp	Arg	Gln	Val
145					150					155				160	
Pro	Ala	Thr	Glu	Glu	Thr	Ala	Gln	Ala	Cys	Gly	Val	Ser	Ser	Ile	Thr
				165					170					175	
Asp	Phe	Leu	Thr	Leu	Pro	Gly	Leu	Val	Ala	Ser	Phe	Asp	Gln	Gln	Gly
			180					185					190		
Tyr	Asp	Leu	Val	Glu	Met	Val	Leu	Ala	Asp	Gln	Glu	Gly	Trp	Asp	Arg
	195						200					205			
Tyr	Glu	Ala	Ala	Lys	Trp	Met	Thr	Met	Arg	Arg	Trp	Leu	Glu	Glu	Asn
	210					215					220				
Pro	Asp	Asp	Asp	Phe	Ala	Gln	Glu	Val	Arg	Ala	Glu	Leu	Thr	Ile	Ala
225					230					235				240	
Pro	Glu	Arg	His	Val	Thr	Tyr	Thr	Arg	Glu	Tyr	Phe	Gly	Trp	Gly	Val
				245					250					255	
Phe	Ala	Leu	Met	Ala	Arg										
			260												

<210> 8412

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 8412

Thr	Asp	Leu	Phe	Leu	Ser	Arg	Ala	Pro	Leu	Gln	His	Pro	Ser	Lys	Tyr
1				5					10					15	
Tyr	Gly	Arg	Arg	Pro	Arg	Asn	Pro	Pro	Gly	Ile	Val	Val	Cys	Tyr	Trp
			20					25					30		
Leu	Phe	Val	Arg	Leu	Glu	Glu	Ser	Glu	Met	Ala	Lys	Gln	Arg	Val	Gly
		35					40					45			
Ile	Val	Phe	Gly	Gly	Lys	Ser	Ala	Glu	His	Glu	Val	Ser	Leu	Gln	Ser
	50					55					60				
Ala	Lys	Asn	Ile	Val	Asp	Ala	Ile	Asp	Lys	Ser	Arg	Phe	Asp	Val	Val
65					70					75				80	
Leu	Leu	Gly	Ile	Asp	Lys	Gln	Gly	Gln	Trp	His	Val	Asn	Asp	Ala	Ser
				85					90					95	
Gln	Tyr	Leu	Leu	His	Ala	Asp	Asp	Pro	Ala	His	Ile	Ala	Leu	Asn	Pro
		100						105					110		
Ser	Asp	Ile	Ser	Val	Ala	Thr	Val	Pro	Gly	Val	Val	Gln	Gly	Gln	Leu
		115					120					125			
Ile	Asp	Ala	Gly	Asn	Ala	Gln	Ala	Leu	Ala	Gln	Ile	Asp	Val	Val	Phe
	130					135					140				
Pro	Ile	Val	His	Gly	Thr	Leu	Gly	Glu	Asp	Gly	Ser	Leu	Gln	Gly	Met
145					150					155				160	
Leu	Arg	Met	Ala	Asn	Leu	Pro	Phe	Val	Gly	Ser	Asp	Val	Leu	Gly	Ser

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<210> 8413
<211> 365
<212> PRT
<213> Enterobacter cloacae
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Thr 1	Lys	Tyr	Met	Gln 5	Arg	Ile	Leu	Val	Asp 10	Phe	Glu	Asn	Leu	Lys 15	Asp
Asn	Phe	Ser	Lys 20	Thr	Pro	Leu	Pro	Ala 25	Phe	Arg	Tyr	Thr	Ile 30	Pro	Leu
Cys	Ser	Thr 35	Asn	Ile	Arg	His	Thr 40	Met	Thr	Asp	Leu	Ile 45	Ala	Arg	Pro
Arg	Arg 50	Leu	Arg	Lys	Ser	Pro 55	Ala	Leu	Arg	Ala	Met 60	Phe	Glu	Glu	Thr
Thr 65	Leu	Thr	Leu	Asn 70	Asp	Leu	Val	Leu	Pro	Ile 75	Phe	Val	Glu	Glu 80	Glu
Ile	Asp	Asp	Tyr 85	Lys	Ala	Ile	Asp	Ala	Met 90	Pro	Gly	Val	Met 95	Arg	Ile
Pro	Glu	Lys	His 100	Leu	Ala	Arg	Glu	Ile 105	Glu	Arg	Ile	Ala	Asn 110	Ala	Gly
Ile	Arg	Ser 115	Val	Met	Thr	Phe	Gly 120	Ile	Ser	His	His	Thr 125	Asp	Ala	Thr
Gly	Ser 130	Asp	Ala	Trp	Lys	Glu 135	Asp	Gly	Leu	Val	Ala 140	Arg	Met	Ser	Arg
Ile 145	Cys	Lys	Glu	Ser 150	Val	Pro	Glu	Met	Ile	Val 155	Met	Ser	Asp	Thr	Cys
Phe	Cys	Glu	Tyr 165	Thr	Ser	His	Gly	His	Cys 170	Gly	Val	Leu	Cys 175	Asp	His
Gly	Val	Asp	Asn	Asp	Ala	Thr	Leu	Leu	Asn	Leu	Gly	Lys	Gln	Ala	Val

[illegible]

<213> Enterobacter cloacae

Ile 1	Val	Val	Gln	Glu 5	Asn	Ile	Met	Asn	Arg 10	Ile	Leu	Val	Gly	Ile 15	Ile
Phe	Ser	Leu	Phe 20	Ile	Thr	Thr	Gly	Tyr 25	Ile	Ala	Phe	Leu	Val	Tyr	Asp
Arg	Gln	Gln	Glu 35	Leu	Gln	Lys	Leu 40	Thr	His	Tyr	Thr	Glu 45	Ser	Trp	Ser
Val	Ala 50	Gln	Leu	Val	Ser	Glu 55	Tyr	Tyr	Arg	Phe	Glu 60	Ser	Trp	Ile	Gly
Leu 65	Tyr	Ala	Thr	Glu 70	Thr	Asp	Asp	Val	Thr	Val	Asp	Gln	Val	Arg	Met 80
Arg	Leu	Glu	Ile 85	Met	Leu	Ser	Gln	Asn	Asp 90	Leu	Leu	Lys	Glu	Gly 95	Gly
Leu	Gly	Arg	Tyr 100	Ile	Asn	Ser	Glu	Lys 105	Ala	His	Gln	Ala	Leu 110	Ala	Leu
Arg	Leu	Glu 115	Asn	Ile	Leu	Asn	Tyr 120	Leu	Asp	Gly	His	Leu 125	Glu	Lys	Met
Ser	Arg 130	Ser	Glu	Leu	Lys	Leu 135	Tyr	Leu	Asn	Asn	Met	His	Ser	Leu	Asp
Ala 145	Pro	Leu	Ser	Gln 150	Leu	Ser	Ser	Thr	Ala	Leu 155	Thr	Lys	Asp	Val	Asn 160
Thr	Ile	Asn	Glu 165	Thr	Asn	Leu	Lys	Ile	Gln	Val	Leu	Tyr	Tyr	Ile	Tyr
Ser	Ala	Leu	Ser 180	Leu	Leu	Leu	Val	Ile 185	Leu	Ser	Phe	Ile	Leu 190	Gly	Phe
Leu	Ile 195	Ile	Tyr	Gln	Asn	Lys	Asn 200	Ile	Leu	Lys	Ala	His	Met	Gln	Val
Lys	Thr 210	Leu	Ala	Glu	Glu	Leu 215	Gln	Leu	Ser	Lys	Glu 220	Thr	Leu	Gln	Ile
Gln 225	Asn	Thr	Lys	Leu 230	Glu	Tyr	Asp	Val	Tyr	His	Asp	Ser	Leu	Thr	Gly
Met	Lys	Asn	Arg	Leu	Phe	Phe	Trp	Asp	Asp	Leu	Asn	Lys	Leu	Asn	Leu


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      245      250      255
Gln Ala Glu Lys Lys His Ile Ser Val Thr Val Met Leu Phe Asp Leu
      260      265      270
Asp Arg Phe Lys Glu Val Asn Asp Thr Tyr Gly His Asp Thr Gly Asp
      275      280      285
Leu Leu Leu Arg Glu Val Ser Thr Arg Leu Asn Ala Leu Gly Arg Phe
      290      295      300
Ser Glu Thr Phe Tyr Arg Leu Gly Gly Asp Glu Phe Ala Phe Leu Ser
      305      310      315
Ser Gly Leu Thr Glu Thr Ala Ala Val Ser Arg Ala Arg Glu Ile Ser
      325      330      335
Asp Ser Ile Ser Lys Pro Tyr Thr Ile Asn Asn Gln Leu Ile Lys Ile
      340      345      350
Ala Thr Cys Val Gly Ile Val Leu Ser Asp Asn Glu Arg Arg Ser Asp
      355      360      365
Tyr Leu Tyr Lys Phe Ala Asp Leu Ala Leu Tyr Glu Ala Lys Lys Glu
      370      375      380
Gly Ser Gln Gln Ile Lys Val Phe Arg Gln Arg Met Leu Gln Lys Leu
      385      390      395
Gln Glu Ser Arg Thr Leu Glu Asn Asp Met Ala Arg Ala Ile Glu Asn
      405      410      415
Asp Glu Phe Val Tyr Tyr Gln Pro Ile Val Asn Ser Val Ser Lys
      420      425      430
Glu Ile Tyr Gly Tyr Glu Ala Leu Ile Arg Trp Met His Pro Val Lys
      435      440      445
Gly Met Leu Ala Pro Asp Ser Phe Ile Phe Ala Ala Glu Lys Thr Gly
      450      455      460
Met Ile Asn Glu Ile Gly Lys Thr Val Leu Lys Leu Ala Cys Arg Glu
      465      470      475
Ala Val Ser Trp Thr Val Pro Ala Arg Ile Ser Val Asn Val Ser Pro
      485      490      495
Val Gln Leu Gly Ser Lys Ser Phe Ile Asn Thr Val Gln Ser Val Leu
      500      505      510
Ala Glu Thr Gly Leu Pro Ala Asn Arg Leu Glu Leu Glu Val Thr Glu
      515      520      525
Ser Ser Leu Phe Ser Asp Arg Asn Asn Pro Ile Ala Ile Leu Lys Lys
      530      535      540
Leu Arg Ala Leu Gly Val Arg Ile Ser Ile Asp Asp Phe Gly Thr Gly
      545      550      555
Tyr Ser Ser Leu Ser Arg Leu Ser Glu Leu Asn Phe Asp Lys Ile Lys
      565      570      575
Ile Asp Lys Ser Phe Val Asn Pro Ile Ser Thr Gln Glu Asp Ala Leu
      580      585      590
Asn Ile Val Lys Leu Ile Thr Gly Met Ala Lys Ser Leu Asn Met Gly
      595      600      605
Val Ile Ala Glu Gly Val Glu Thr Glu Glu Gln Leu Glu Arg Leu Gln
      610      615      620
Ala Leu Gly Cys Glu Leu Val Gln Gly Tyr Leu Phe Ser Lys Pro Gln
      625      630      635
Pro Gln Val Asp Ser Lys Ile Lys Ser Gly Gln Glu
      645      650

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<210> 8415

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 8415

```

Ser Asn Ser Phe Ser Met Met Phe Asp Asn Ser Gly Asp Ile Thr Pro
1          5          10          15
Pro Cys Gly Thr Pro Ser Leu Ala Ala Arg Lys Arg Pro Thr Ser Ile

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<210> 8416
<211> 148
<212> PRT
<213> Enterobacter cloacae
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<210> 8417
<211> 141
<212> PRT
<213> Enterobacter cloacae
```

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<210> 8418
<211> 174
<212> PRT
```

<213> Enterobacter cloacae

<400> 8418

```

Asn Gly Lys Arg His Ile Lys Lys Gly Tyr Arg Ala Phe Asp Val Arg
1      5      10      15
Leu Pro Glu Gln Phe Ser Leu Ile Glu Lys Leu Arg Ala Gln Tyr Pro
      20      25      30
Val Val Thr Leu Cys Gln Val Phe Gly Val His Arg Ser Ser Tyr Lys
      35      40      45
Tyr Trp Val Lys Ser Pro Glu Lys Pro Asp Gly Lys Arg Ala Val Leu
      50      55      60
Arg Ser Gln Val Leu Glu Leu His Asn Ile Ser His Gly Ser Ala Gly
65      70      75      80
Ala Arg Ser Ile Ala Ile Met Ala Thr Leu Arg Gly Phe Arg Met Gly
      85      90      95
Arg Trp Leu Ala Gly Arg Leu Met Lys Glu Leu Gly Leu Val Ser Cys
      100     105     110
Gln Gln Pro Thr His Arg Tyr Lys Arg Gly Gly His Glu His Ile Ala
      115     120     125
Ile Pro Asn His Leu Glu Arg Gln Phe Ala Val Thr Glu Ser Asn Gln
      130     135     140
Val Trp Cys Gly Asp Val Thr Tyr Ser Val Pro Gly Val Gln Gly Gly
145     150     155     160
His Gly Cys Leu Asn Glu Pro Arg Val Cys Leu Glu Tyr
      165     170

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<210> 8419

<211> 510

<212> PRT

<213> Enterobacter cloacae

<400> 8419

```

Arg Pro Leu Ile Ile Ser Glu Met Gln Arg Lys Leu Ala Thr Trp Ala
1      5      10      15
Ala Thr Asp Pro Ser Leu Arg Ile Gln Arg Leu Leu Arg Leu Ile Thr
      20      25      30
Gln Pro Glu Trp Leu Ala Glu Ala Ala Arg Ile Thr Leu Ser Ser Lys
      35      40      45
Gly Ala His Thr Pro Gly Val Asp Gly Val Asn Lys Thr Met Leu Gln
      50      55      60
Ala Arg Leu Ala Val Glu Leu Gln Ile Leu Arg Asp Glu Leu Leu Ser
65      70      75      80
Gly His Tyr Gln Pro Leu Pro Ala Arg Arg Val Tyr Ile Pro Lys Ser
      85      90      95
Asn Gly Lys Leu Arg Pro Leu Gly Ile Pro Ala Leu Arg Asp Arg Ile
      100     105     110
Val Gln Arg Ala Met Leu Met Ala Met Glu Pro Ile Trp Glu Ser Asp
      115     120     125
Phe His Thr Leu Ser Tyr Gly Phe Arg Pro Glu Arg Ser Val His His
      130     135     140
Ala Ile Arg Thr Val Lys Leu Gln Leu Thr Asp Cys Gly Glu Thr Arg
145     150     155     160
Gly Arg Trp Val Ile Glu Gly Asp Leu Ser Ser Tyr Phe Asp Thr Val
      165     170     175
His His Arg Leu Leu Met Lys Ala Val Arg Arg Arg Ile Ser Asp Ala
      180     185     190
Arg Phe Met Thr Leu Leu Trp Lys Thr Ile Lys Ala Gly His Ile Asp
      195     200     205
Val Gly Leu Phe Arg Ala Ala Ser Glu Gly Val Pro Gln Gly Gly Val
210     215     220
Ile Ser Pro Leu Leu Ser Asn Ile Met Leu Asn Glu Phe Asp Gln Tyr

```

225					230					235					240
Leu	His	Glu	Arg	Tyr	Leu	Ser	Gly	Lys	Ala	Arg	Lys	Asp	Arg	Trp	Tyr
				245					250					255	
Trp	Asn	Asn	Ser	Ile	Gln	Arg	Gly	Arg	Ser	Thr	Ala	Val	Arg	Glu	Asn
			260					265					270		
Trp	Gln	Trp	Lys	Pro	Ala	Val	Ala	Tyr	Cys	Arg	Tyr	Ala	Asp	Asp	Phe
		275					280					285			
Val	Leu	Ile	Val	Lys	Gly	Thr	Lys	Ala	Gln	Ala	Glu	Ala	Ile	Arg	Glu
	290					295					300				
Glu	Cys	Arg	Gly	Val	Leu	Glu	Gly	Ser	Leu	Lys	Leu	Arg	Leu	Asn	Met
305					310					315				320	
Asp	Lys	Thr	Lys	Ile	Thr	His	Val	Asn	Asp	Gly	Phe	Ile	Phe	Leu	Gly
			325						330					335	
His	Arg	Ile	Ile	Arg	Lys	Arg	Ser	Arg	Tyr	Gly	Glu	Met	Arg	Val	Val
			340					345					350		
Ser	Thr	Ile	Pro	Gln	Glu	Lys	Ala	Arg	Asn	Phe	Ala	Ala	Ser	Leu	Thr
		355					360					365			
Ala	Leu	Leu	Ser	Gly	Asn	Tyr	Ser	Glu	Ser	Lys	Val	Asp	Met	Ala	Glu
	370					375					380				
Gln	Leu	Asn	Arg	Lys	Leu	Lys	Gly	Trp	Ala	Met	Phe	Tyr	Gln	Phe	Val
385					390					395				400	
Asp	Phe	Lys	Ala	Lys	Val	Phe	Ser	Tyr	Ile	Asp	Arg	Val	Val	Phe	Trp
				405					410					415	
Lys	Leu	Ala	His	Trp	Leu	Ala	Arg	Lys	Tyr	Arg	Thr	Gly	Ile	Ala	Ser
			420					425					430		
Leu	Met	Arg	Trp	Trp	Cys	Lys	Ser	Pro	Lys	Pro	Gly	Gln	Ser	Lys	Thr
	435						440					445			
Trp	Val	Leu	Phe	Gly	Lys	Thr	Asn	His	Gly	Lys	Leu	Ser	Gly	Glu	Ile
	450					455					460				
Leu	Tyr	Arg	Leu	Val	Gly	Gln	Gly	Lys	Lys	Leu	Phe	Arg	Trp	Arg	Leu
465					470					475				480	
Pro	Glu	Gly	Asn	Pro	Tyr	Leu	Arg	Thr	Glu	Thr	Arg	Asn	Thr	Tyr	Thr
			485						490					495	
Ser	Arg	Phe	Thr	Glu	Val	Ala	Met	Ala	Phe	Ala	Ser	Ile			
			500					505					510		

<210> 8420

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 8420

Gly	Arg	Met	Thr	Ile	Thr	Val	Gly	Tyr	Pro	Gln	Thr	Asn	Arg	Lys	Thr
1				5					10					15	
Asp	Thr	Gly	Lys	Thr	Leu	Lys	Pro	Trp	Pro	Val	Leu	Val	Asp	His	Phe
			20					25					30		
Lys	Gln	Leu	Asn	Pro	Ser	Met	Leu	His	Phe	Leu	Ala	Glu	Cys	Leu	Thr
	35						40					45			
Leu	Ser	Val	Glu	Arg	Arg	His	Asn	Pro	Lys	Gly	Tyr	Thr	Ala	Ser	Val
	50					55					60				
Met	Leu	Ser	Arg	His											
65					70										

<210> 8421

<211> 319

<212> PRT

<213> Enterobacter cloacae

<400> 8421

Cys	Gly	Thr	Gly	Arg	Asp	Arg	Ser	Asp	Arg	Arg	Asp	Arg	Leu	Trp	Ile
1				5					10					15	

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Arg Thr Gly Thr Ala Arg Ala Thr Ala Ser Pro Asp Ala Leu Ala Trp
      20      25      30
Arg Asn Thr Met Ser Glu Arg Leu Thr Ile Ile Pro Leu Gly Pro Tyr
      35      40      45
Ile Gly Ala Gln Val Ser Gly Leu Asp Val Thr Arg Pro Leu Ser Asp
      50      55      60
Asn Gln Phe Glu Gln Leu Tyr His Ala Val Leu Arg His Gln Val Val
      65      70      75      80
Phe Leu Arg Glu Gln Ala Ile Thr Pro His Gln Gln Arg Ala Leu Ala
      85      90      95
Leu Arg Phe Gly Asp Leu His Ile His Pro Val Tyr Pro His Ala Glu
      100      105      110
Gly Val Glu Glu Ile Ile Val Leu Asp Thr His Asn Asp Asn Pro Pro
      115      120      125
Asp Asn Asp Asn Trp His Thr Asp Val Thr Phe Ile Asp Thr Pro Pro
      130      135      140
Ala Gly Ala Ile Leu Ala Ala Lys Leu Leu Pro Glu Thr Gly Gly Asp
      145      150      155      160
Thr Leu Trp Ala Ser Gly Ile Ala Ala Phe Glu Ala Leu Ser Ala Pro
      165      170      175
Leu Gln Thr Leu Leu Ser Gly Leu Arg Ala Glu His Asp Phe Lys Lys
      180      185      190
Ser Phe Gln Glu Tyr Lys Tyr Arg Lys Thr Glu Glu Glu His Gln Arg
      195      200      205
Trp Leu Asp Ala Val Glu Lys His Pro Pro Leu Leu His Pro Val Val
      210      215      220
Arg Thr His Pro Val Thr Gly Lys Gln Ala Leu Phe Val Asn Glu Gly
      225      230      235      240
Phe Thr Thr Arg Ile Val Asp Val Ala Glu Lys Glu Ser Glu Ala Leu
      245      250      255
Leu Gly Phe Leu Phe Ala His Ile Thr Lys Pro Glu Phe Gln Val Arg
      260      265      270
Trp Arg Trp Gln Glu Asn Asp Leu Ala Ile Trp Asp Asn Arg Val Thr
      275      280      285
Gln His Tyr Ala Asn Ala Asp Tyr Leu Pro Gln Arg Arg Ile Met Gln
      290      295      300
Arg Ala Thr Ile Leu Gly Asp Lys Pro Phe Tyr Arg Ala Val
      305      310      315

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<210> 8422

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 8422

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Gly Met Lys Leu Gly Tyr Asp Trp Lys Pro Asn Leu Ser Gly Tyr Val
1      5      10      15
Thr Pro Tyr Ala Ala Ile Ser Gly Leu Phe Gln Ser Arg Asp Glu Tyr
      20      25      30
Gln Leu Ser Asn Asp Met Arg Ile Asp Gly Gln Ser Tyr Asp Ser Met
      35      40      45
Arg Tyr Glu Val Gly Val Asp Ala Gly Tyr Thr Phe Asn Thr Gly Gly
      50      55      60
Glu Gln Ala Leu Thr Pro Tyr Phe Lys Leu Ala Tyr Val Tyr Asp Asp
      65      70      75      80
Ala Asp Asn Asn Ala Asp Ile Asn Asn Asp Ser Ile Asp Asn Gly Val
      85      90      95
Glu Gly Ser Ala Val Arg Val Gly Leu Gly Thr Gln Phe Ser Phe Thr
      100      105      110
Lys Asn Phe Ser Ala Tyr Thr Asp Ala Thr Tyr Leu Gly Gly Gly Asp
      115      120      125

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Val Asp Gln Asn Trp Gly Ala Asn Leu Gly Val Lys Tyr Thr Trp
 130 135 140

<210> 8423

<211> 413

<212> PRT

<213> Enterobacter cloacae

<400> 8423

Gln Gln Glu Gly Ser Thr Met Phe Lys Ser Phe Phe Pro Lys Pro Gly
 1 5 10 15
 Pro Phe Phe Leu Ser Ala Phe Ile Trp Ala Leu Leu Ala Val Ile Phe
 20 25 30
 Trp Gln Ala Gly Gly Gly Ala Trp Leu Thr Arg Leu Thr Gly Ala Thr
 35 40 45
 Gly Asp Ile Pro Ile Ser Ala Ala Arg Phe Trp Ser Met Ser Tyr Leu
 50 55 60
 Leu Phe Tyr Ala Tyr Tyr Val Leu Cys Val Gly Leu Phe Ala Met Phe
 65 70 75 80
 Trp Phe Val Tyr Ser Pro His Arg Trp Gln Tyr Trp Ser Ile Leu Gly
 85 90 95
 Thr Ser Leu Ile Ile Phe Val Thr Trp Phe Leu Val Glu Val Gly Val
 100 105 110
 Ala Val Asn Ala Trp Tyr Ala Pro Phe Tyr Asp Leu Ile Gln Thr Ala
 115 120 125
 Leu Ser Ser Pro His Lys Val Thr Ile Asn Gln Phe Tyr His Glu Val
 130 135 140
 Gly Ile Phe Leu Gly Ile Ala Leu Ile Ala Val Val Ile Gly Val Met
 145 150 155 160
 Asn Asn Phe Phe Val Ser His Tyr Val Phe Arg Trp Arg Thr Ala Met
 165 170 175
 Asn Glu His Tyr Met Ala His Trp Gln His Leu Arg His Ile Glu Gly
 180 185 190
 Ala Ala Gln Arg Val Gln Glu Asp Thr Met Arg Phe Ala Ser Thr Leu
 195 200 205
 Glu Asp Met Gly Val Ser Phe Ile Asn Ala Ile Met Thr Leu Ile Ala
 210 215 220
 Phe Leu Pro Val Leu Val Thr Leu Ser Ser His Val Pro Glu Leu Pro
 225 230 235 240
 Ile Val Gly His Leu Pro Tyr Gly Leu Val Ile Ala Ala Ile Val Trp
 245 250 255
 Ser Leu Met Gly Thr Gly Leu Leu Ala Val Val Gly Ile Lys Leu Pro
 260 265 270
 Gly Leu Glu Phe Lys Asn Gln Arg Val Glu Ala Ala Tyr Arg Lys Glu
 275 280 285
 Leu Val Tyr Gly Glu Asp Asp Ala Asn Arg Ala Ser Pro Pro Thr Val
 290 295 300
 Arg Glu Leu Phe Gly Ala Val Arg Arg Asn Tyr Phe Arg Leu Tyr Phe
 305 310 315 320
 His Tyr Met Tyr Phe Asn Ile Ala Arg Ile Leu Tyr Leu Gln Val Asp
 325 330 335
 Asn Val Phe Gly Leu Phe Leu Leu Phe Pro Ser Ile Val Ala Gly Thr
 340 345 350
 Ile Thr Leu Gly Leu Met Thr Gln Ile Thr Asn Val Phe Gly Gln Val
 355 360 365
 Arg Gly Ser Phe Gln Tyr Leu Ile Ser Ser Trp Thr Thr Leu Val Glu
 370 375 380
 Leu Met Ser Ile Tyr Lys Arg Leu Arg Ser Phe Glu Arg Glu Leu Asp
 385 390 395 400
 Asp Lys Asp Val Gln Glu Val Thr His Thr Leu Gly
 405 410

<210> 8424
 <211> 370
 <212> PRT
 <213> Enterobacter cloacae

<400> 8424

Lys Gly Ile Ala Met Pro Phe Ala Val Pro Arg Ala Leu Pro Leu Thr
 1 5 10 15
 Leu Leu Ala Ala Phe Val Leu Ala Gly Cys Ala Glu Lys Gly Ala Ala
 20 25 30
 Pro Leu Lys Glu Gly Glu Lys Pro Val Asp Val Ala Ser Val Val Arg
 35 40 45
 Gln Lys Met Pro Ala Ser Val Lys Asp Arg Ser Glu Trp Ala Asp Ala
 50 55 60
 Leu Ala Thr Thr Phe Lys Ser Gln Lys Ile Ala Pro Thr Glu Glu Asn
 65 70 75 80
 Ile Cys Ser Val Leu Ala Val Ala Gln Gln Glu Ser Met Tyr Gln Ser
 85 90 95
 Asp Pro Val Val Pro Gly Leu Asn Lys Ile Ala Trp Lys Glu Ile Asp
 100 105 110
 Arg Arg Ala Glu Ser Met His Ile Pro Val Phe Leu Val His Thr Ala
 115 120 125
 Leu Lys Ile Thr Ser Pro Asn Gly Lys Ser Tyr Ser Glu Arg Leu Asp
 130 135 140
 Thr Val Lys Thr Glu Lys Gln Leu Ser Ala Ile Phe Asp Asp Phe Ile
 145 150 155 160
 Asn Met Val Pro Met Gly Gln Lys Leu Phe Gly Ser Leu Asn Pro Val
 165 170 175
 His Thr Gly Gly Pro Met Gln Val Ser Ile Ala Phe Ala Glu Lys His
 180 185 190
 Thr Asp Gly Tyr Pro Trp Gly Ile Asp Gly Thr Val Arg Gln Glu Val
 195 200 205
 Phe Ser Leu Arg Gly Gly Leu Trp Phe Gly Thr Tyr His Leu Leu Asn
 210 215 220
 Tyr Pro Ala Asn Tyr Asp Lys Pro Leu Tyr Arg Phe Ala Asp Phe Asn
 225 230 235 240
 Ala Gly Trp Tyr Ala Ser Arg Asn Ala Ala Phe Gln Asn Ala Val Ser
 245 250 255
 Arg Ala Ser Gly Val Lys Leu Ala Leu Asp Gly Asp Leu Ile Ala Tyr
 260 265 270
 Gly Ser Ser Glu Ala Gly Thr Thr Glu Arg Ala Val Arg Lys Leu Ser
 275 280 285
 Thr Lys Leu Glu Met Ser Asn Asn Asp Ile Arg Arg Gln Leu Glu Lys
 290 295 300
 Gly Asp Ser Leu Ala Phe Glu Lys Thr Asp Leu Tyr Lys Gln Val Phe
 305 310 315 320
 Ala Leu Ala Glu Lys Lys Ser Gly Lys Ala Leu Pro Arg Ala Ile Leu
 325 330 335
 Pro Gly Ile Gln Leu Glu Ser Pro Lys Ile Thr Arg Asn Leu Thr Thr
 340 345 350
 Ala Trp Phe Ala Lys Arg Val Asn Asp Arg Arg Ala Arg Cys Met Gly
 355 360 365
 Leu
 370

<210> 8425
 <211> 132
 <212> PRT
 <213> Enterobacter cloacae

<400> 8425

Pro His Ala Ala Gln Arg Cys Val Lys Trp Phe Thr Glu Phe Gly His
 1 5 10 15
 Leu Asn Arg Gly Asp Met Leu Ile Ser Glu Gln Tyr Arg Cys Pro Asn
 20 25 30
 Glu Lys Arg Asn Phe Ser Ala Glu Phe Lys Arg Glu Ser Ala Gln Leu
 35 40 45
 Val Leu Asp Gln Asn Tyr Thr Val Ala Ala Ala Ser Ala Met Asp
 50 55 60
 Val Gly Leu Ser Thr Met Thr Arg Trp Val Lys Gln Leu Arg Asp Glu
 65 70 75 80
 Arg Gln Gly Lys Ile Pro Lys Ala Ser Pro Ile Thr Pro Glu Gln Ile
 85 90 95
 Glu Ile Arg Glu Leu Lys Lys Lys Leu Gln Arg Ile Glu Met Glu Asn
 100 105 110
 Asp Ile Leu Lys Lys Ala Thr Ala Leu Leu Met Ser Asp Ser Leu Asn
 115 120 125
 Ser Ser Arg
 130

<210> 8426

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 8426

Met Ser Ile Arg Leu Glu Gly Asn Met Gln Thr Glu Gln Gln Asn Gly
 1 5 10 15
 Gln Leu Lys Arg Thr Met Lys Thr Arg His Leu Ile Met Leu Ser Leu
 20 25 30
 Gly Gly Val Ile Gly Thr Gly Leu Phe Phe Asn Thr Gly Tyr Ile Ile
 35 40 45
 Ser Thr Thr Gly Ala Ala Gly Thr Leu Leu Ala Tyr Leu Ile Gly Ala
 50 55 60
 Leu Val Val Trp Leu Val Met Gln Cys Leu Gly Glu Leu Ser Val Ala
 65 70 75 80
 Met Pro Glu Thr Gly Ala Phe His Val Tyr Ala Ala Arg Tyr Leu Gly
 85 90 95
 Pro Ala Thr Gly Tyr Thr Val Ala Trp Leu Tyr Trp Leu Thr Trp Thr
 100 105 110
 Val Ala Leu Gly Ser Ser Phe Thr Ala Ala Gly Phe Cys Met Gln Tyr
 115 120 125
 Trp Phe Pro Gln Val Pro Val Trp Thr Trp Cys Val Val Phe Cys Val
 130 135 140
 Val Ile Phe Ala Leu Asn Val Ile Ser Thr Arg Phe Phe Ala Glu Gly
 145 150 155 160
 Glu Phe Trp Phe Ser Leu Val Lys Val Ile Thr Ile Ile Ala Phe Ile
 165 170 175
 Ile Leu Gly Gly Ala Ala Ile Phe Gly Phe Ile Pro Met Gln Asp Gly
 180 185 190
 Ser Pro Ala Pro Gly Leu Ser Asn Ile Thr Ala Glu Gly Trp Phe Pro
 195 200 205
 His Gly Gly Leu Pro Ile Leu Met Thr Met Val Ala Val Asn Phe Ala
 210 215 220
 Phe Ser Gly Thr Glu Leu Ile Gly Ile Ala Ala Gly Glu Thr Glu Asn
 225 230 235 240
 Pro His Lys Val Ile Pro Val Ala Ile Arg Thr Thr Ile Ala Arg Leu
 245 250 255
 Ile Ile Phe Phe Ile Gly Thr Val Phe Val Leu Ala Ala Leu Ile Pro
 260 265 270
 Met Gln Gln Ala Gly Val Glu Lys Ser Pro Phe Val Leu Val Phe Glu


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<210> 8427
<211> 346
<212> PRT
<213> Enterobacter cloacae
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<400> 8427															
Arg	Phe	Phe	Phe	Ile	Pro	Leu	Ser	Lys	Phe	Ser	Arg	Arg	Lys	Tyr	Cys
1				5					10					15	
Ser	His	Asn	Asn	Lys	Gly	Ala	Asp	Ile	Met	Ala	Ile	Ser	Ser	Arg	Ile
			20					25					30		
Thr	Leu	Leu	Gly	Ala	Leu	Ala	Leu	Trp	Ala	Phe	Gln	Ala	Gln	Ala	Val
			35					40					45		
Asp	Val	Thr	Val	Ala	Tyr	Gln	Thr	Ser	Ala	Glu	Pro	Ala	Lys	Val	Ala
	50						55				60				
Gln	Ala	Asp	Asn	Thr	Phe	Ala	Lys	Ala	Ser	Gly	Ala	Asn	Val	Asp	Trp
65					70					75					80
Arg	Lys	Phe	Asp	Ser	Gly	Ala	Ala	Ile	Val	Arg	Ala	Leu	Ala	Ser	Gly
				85					90					95	
Asp	Val	Gln	Ile	Gly	Asn	Leu	Gly	Ser	Ser	Pro	Leu	Ala	Val	Ala	Ala
			100					105					110		
Ser	Gln	Gln	Val	Pro	Ile	Glu	Val	Phe	Leu	Leu	Ala	Ser	Gln	Leu	Gly
			115					120				125			
Asn	Ser	Glu	Ala	Leu	Val	Val	Lys	Lys	Ser	Ile	Thr	Lys	Pro	Glu	Asp
	130						135				140				
Leu	Ile	Gly	Lys	Arg	Ile	Ala	Val	Pro	Phe	Ile	Ser	Thr	Thr	His	Tyr
145					150					155					160
Ser	Leu	Leu	Ala	Ala	Leu	Lys	His	Trp	Gly	Ile	Lys	Pro	Gly	Gln	Val
				165					170					175	
Gln	Ile	Ile	Asn	Leu	Gln	Pro	Pro	Ala	Ile	Ile	Ala	Ala	Trp	Gln	Arg
			180					185					190		
Gly	Asp	Ile	Asp	Gly	Ala	Tyr	Val	Trp	Ala	Pro	Ala	Val	Asn	Glu	Leu
			195				200				205				
Glu	Lys	Glu	Gly	Thr	Val	Leu	Thr	Asp	Ser	Glu	Lys	Val	Gly	Gln	Trp
	210						215				220				
Gly	Ala	Pro	Thr	Leu	Asp	Val	Trp	Val	Val	Arg	Lys	Asp	Phe	Ala	Glu

225					230					235				240
Lys	His	Pro	Glu	Val	Val	Lys	Ala	Phe	Ala	Lys	Ser	Ala	Ile	Asp
				245					250					255
Gln	Gln	Pro	Tyr	Ile	Ser	Asn	Pro	Asp	Glu	Trp	Leu	Lys	Gln	Pro
			260					265					270	Thr
Asn	Leu	Glu	Lys	Leu	Ser	Arg	Leu	Ser	Gly	Val	Pro	Glu	Ala	Asp
		275					280					285		Val
Pro	Gly	Leu	Val	Lys	Gly	Asn	Thr	Tyr	Leu	Thr	Pro	Ala	Gln	Gln
	290					295					300			Val
Gln	Gln	Leu	Asn	Gly	Pro	Val	Ser	Lys	Ala	Ile	Val	Asp	Thr	Ala
305					310					315				Thr
Phe	Leu	Lys	Glu	Gln	Gly	Lys	Val	Pro	Ala	Val	Ala	Ala	Asp	Tyr
				325					330					335
Gln	Phe	Val	Thr	Asp	Arg	Phe	Val	Lys						
			340					345						

<210> 8428

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 8428

Ala	Thr	Gly	Gly	Val	Leu	Met	Ser	Ile	Val	Phe	Ser	Glu	Lys	Thr	Arg
1				5					10					15	
Arg	Thr	Arg	Leu	Ala	Leu	Arg	Trp	Pro	Phe	Ser	Arg	Gln	Ile	Thr	Leu
			20					25					30		
Ser	Val	Ser	Thr	Leu	Val	Val	Leu	Leu	Ala	Val	Trp	Trp	Ala	Val	Ala
		35					40					45			
Ala	Gln	Gln	Trp	Val	Ser	Pro	Leu	Phe	Leu	Pro	Pro	Pro	Gly	Gln	Val
	50					55				60					
Leu	Glu	Lys	Leu	Ile	Thr	Ile	Ala	Gly	Pro	Gln	Gly	Phe	Met	Asp	Ala
				70						75				80	
Thr	Leu	Trp	Gln	His	Leu	Gly	Ala	Ser	Leu	Thr	Arg	Ile	Leu	Val	Ala
				85					90					95	
Leu	Leu	Ala	Ala	Val	Ile	Ile	Gly	Val	Pro	Val	Gly	Ile	Ala	Met	Gly
		100					105					110			
Leu	Ser	Pro	Thr	Val	Arg	Gly	Ile	Leu	Asp	Pro	Leu	Ile	Glu	Leu	Tyr
	115					120						125			
Arg	Pro	Val	Pro	Pro	Leu	Ala	Tyr	Leu	Pro	Leu	Met	Val	Ile	Trp	Phe
	130					135					140				
Gly	Ile	Gly	Glu	Thr	Ser	Lys	Ile	Leu	Leu	Ile	Tyr	Leu	Ala	Ile	Phe
	145				150					155				160	
Ala	Pro	Val	Ala	Met	Ser	Ala	Leu	Ala	Gly	Val	Lys	Ser	Ala	Gln	Gln
			165						170					175	
Val	Arg	Ile	Arg	Ala	Ala	Gln	Ser	Leu	Gly	Ala	Ser	Arg	Ala	Gln	Val
		180						185					190		
Leu	Leu	Phe	Val	Ile	Leu	Pro	Gly	Ala	Leu	Pro	Glu	Ile	Leu	Thr	Gly
	195						200					205			
Leu	Arg	Ile	Gly	Leu	Gly	Val	Gly	Trp	Ser	Thr	Leu	Val	Ala	Ala	Glu
	210					215					220				
Leu	Ile	Ala	Ala	Thr	Arg	Gly	Leu	Gly	Phe	Met	Val	Gln	Ser	Ala	Gly
	225				230				235						240
Glu	Phe	Leu	Ala	Thr	Asp	Val	Val	Leu	Ala	Gly	Ile	Ala	Val	Ile	Ala
			245						250					255	
Ala	Ile	Ala	Phe	Gly	Leu	Glu	Leu	Gly	Leu	Arg	Ala	Leu	Gln	Arg	Arg
		260						265					270		
Leu	Thr	Pro	Trp	His	Gly	Glu	Ile	Gln							
		275					280								

<210> 8429

<211> 797

<212> PRT

<213> Enterobacter cloacae

<400> 8429

Trp	Thr	Asn	Leu	Leu	Thr	Ser	Leu	Arg	Arg	Asp	Asp	Pro	Met	Gln	Thr
1			5					10						15	
Trp	Lys	Lys	Lys	Leu	Val	Val	Ser	Gln	Leu	Ala	Leu	Ala	Cys	Thr	Leu
		20						25					30		
Ala	Ile	Ala	Ser	Gln	Ala	Asn	Ala	Lys	Asp	Ile	Ser	Gly	Thr	Thr	Tyr
		35				40						45			
Asn	Thr	Phe	Gly	Tyr	Asp	Asn	Thr	Ala	Ser	Thr	Pro	Trp	Tyr	Tyr	Gly
	50				55						60				
Tyr	Ala	Asp	Trp	Asn	Tyr	Ser	Asp	Ala	Thr	His	Asp	Gly	Asp	Ile	Tyr
65				70						75				80	
Pro	Val	Val	Asn	Lys	Ser	Thr	Val	Asn	Gly	Val	Ile	Ser	Thr	Tyr	Tyr
			85					90						95	
Leu	Asp	Asp	Gly	Val	Asn	Gly	Arg	Ala	Asn	Ala	Leu	Ser	Ile	Ser	Asn
			100					105					110		
Ser	Thr	Ile	Asn	Gly	Met	Ile	Thr	Ser	Glu	Cys	Met	Thr	Thr	Thr	Cys
		115				120						125			
Ala	Asp	Gly	Val	Asp	Thr	Asp	Gly	Thr	Ala	His	Thr	Gln	Tyr	Asp	Arg
	130					135					140				
Phe	Ser	Leu	Thr	Val	Asp	Asn	Ser	Thr	Ile	Asn	Asp	Thr	Tyr	Glu	His
145				150						155				160	
Tyr	Ala	Tyr	Asp	Val	Val	Asn	Gly	Glu	Thr	Thr	Glu	Thr	His	Tyr	Leu
			165					170						175	
Asp	Thr	Tyr	Asp	Leu	Gly	Asn	Ala	Ile	Thr	Leu	Asp	Val	Glu	Ser	Asp
			180					185					190		
Ile	Val	Ile	Gln	Asn	Asn	Ser	His	Val	Ala	Gly	Ile	Thr	Leu	Thr	Gln
		195				200						205			
Gly	Tyr	Gln	Asp	Leu	Asp	Asn	Thr	Pro	Tyr	Asp	Gly	Val	Glu	Gly	Val
	210					215					220				
Ala	Asn	Ser	Ser	Asn	Val	Phe	Thr	Asp	Thr	Leu	Val	Val	Lys	Asp	Ser
225				230						235				240	
Val	Leu	Thr	Ser	Gly	Ala	Tyr	Ser	Asp	Leu	Gly	Thr	Ser	Gly	Phe	Tyr
			245						250					255	
Gly	Gln	Thr	Ala	Lys	Pro	Ser	Asp	Tyr	Gly	Glu	Thr	Asn	Ala	Thr	Ala
			260					265					270		
Ala	Asp	Asp	Ala	Ala	Leu	Ile	Val	Val	Ala	Gly	Ala	Ser	Asp	Asn	Ala
		275				280						285			
Met	Gln	Thr	Thr	Ala	Thr	Phe	Asp	His	Ser	Thr	Ile	Thr	Gly	Asp	Ile
	290					295					300				
Leu	Phe	Ser	Ser	Thr	Phe	Asp	Asn	Asn	Phe	Tyr	Glu	Asn	Gly	Asp	Pro
305				310						315				320	
Ala	Thr	Asp	Thr	Thr	Asp	Asp	Gly	Ile	Tyr	Asn	Pro	Thr	Thr	Asn	Gly
			325						330					335	
Trp	Asp	Asp	Thr	Asp	Lys	Leu	Asp	Val	Thr	Leu	Thr	Asn	Gly	Ser	Lys
			340					345					350		
Trp	Val	Gly	Ala	Ala	Gln	Ser	Ser	Val	Glu	Ala	Ile	Gly	Thr	Ala	Gln
		355				360						365			
Met	Tyr	Gly	Glu	Gly	Tyr	Ser	Asn	Val	Asp	Trp	His	Ala	Leu	Ser	Pro
	370					375					380				
Asn	Ser	Ile	Trp	Pro	Asp	Ser	Thr	Phe	Asp	Ser	Asn	Gly	His	Val	Ala
385				390						395				400	
Gly	Glu	Glu	Val	Tyr	Gln	Ser	Gly	Leu	Phe	Asn	Val	Ala	Leu	Asp	Asn
			405					410					415		
Gly	Ser	Glu	Trp	Asp	Thr	Arg	Lys	Ile	Ser	Asn	Ile	Asp	Ala	Leu	Thr
			420					425					430		
Val	Asn	Asn	Gln	Ser	Gln	Val	Asn	Val	Glu	Asn	Ser	Gly	Leu	Leu	Ala
		435				440						445			
Asp	Ser	Ile	Thr	Leu	Thr	Asn	Ala	Ser	Ser	Leu	Asn	Ile	Gly	Asp	Asn

450	455	460
Gly Ala Val Ala Thr Asp	Ser Leu Tyr Leu Asp	Ser Tyr Ser Arg Ala
465	470	475
Ala Leu Thr Glu Glu Thr	Ala Glu Leu Tyr Ala	Asn Thr Ile Thr Val
	485	490
Asp Asn Gly Ala Glu Leu	Ala Leu Gly Leu Gly	Gln Val Asp Thr His
	500	505
Asn Met Val Leu Thr Asp	Gly Gly Val Leu Asn	Val Ala Ser Arg Asp
	515	520
Tyr Val Leu Asn Ser Asp	Leu Asn Asn Ala Arg	Tyr Ile Thr Asn Asp
	530	535
Arg Asn Lys Ala Asp Tyr	Asp Tyr Gly Val Val	Ala Leu Asn Ser Asp
545	550	555
Gly His Leu Ala Val Asn	Gly Asp Val Ala Gly	Asn Tyr Lys Val Arg
	565	570
Ile Asp Asp Ala Thr Gly	Ala Gly Ser Val Ala	Asp Tyr Lys Asn Lys
	580	585
Glu Ile Ile Arg Val Ser	Asp Asn Asn Ala Asp	Thr Ala Ala Ser Phe
	595	600
Thr Ala Ala Asn Lys Ala	Asp Leu Gly Ala Tyr	Thr Tyr Gln Ala Gln
	610	615
Gln Lys Gly Asp Thr Val	Val Leu Gln Gln Glu	Leu Thr Asp Tyr
625	630	635
Ala Asn Met Ala Leu Ser	Ile Pro Ser Ala Asn	Thr Asn Ile Trp Asn
	645	650
Leu Gln Gln Asp Thr Val	Gly Thr Arg Leu Thr	Asn Ser Arg His Gly
	660	665
Leu Ala Asp Asn Gly Gly	Ala Trp Val Ser Tyr	Phe Gly Gly Asn Phe
	675	680
Asp Ala Asp Asn Gly Thr	Val Ser Tyr Asp Gln	Asp Val Ser Gly Ile
	690	695
Met Val Gly Leu Asp Thr	Gln Ile Asp Gly Asn	Asn Ala Lys Trp Ile
705	710	715
Val Gly Gly Ala Ala Gly	Phe Ala Lys Gly Asp	Ile Ser Asp Arg Thr
	725	730
Gly Gln Val Asp Gln Asp	Ser Gln Thr Ala Met	Ile Tyr Ala Ser Ala
	740	745
Lys Phe Met Asn Asp Ile	Phe Leu Asp Ser Ser	Leu Ser Tyr Thr Arg
	755	760
Phe Asn Asn Asp Leu Ser	Ala Thr Met Ser Asn	Gly Gln Tyr Val Asp
	770	775
Gly Asn Thr Thr Thr Glu	Pro Val Gly Phe Arg	Gly
785	790	795

<210> 8430

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 8430

Leu Glu Val Cys Met Asn Val	Asn Ala Lys Pro Leu Ser Glu Leu Ser
1	5 10 15
Arg Leu Ile Lys Cys Leu Glu Ile	Ala Gly Thr Pro Phe Lys Thr Glu
	20 25 30
Pro Gln Gln Leu Ile Thr Thr	Gly Asn Asn Asp Asp Glu Pro Leu Thr
	35 40 45
Val Val Ile Gln Ser Gly Leu Thr	Ala Val His Arg Lys Ser Asp Glu
	50 55 60
Leu Leu Met Gly Ile Ala Arg	Ala Pro Tyr Ile His Gly Leu Ser Ala
65	70 75 80
Trp Ile Asn Asp Asn Tyr Leu	Glu Tyr Ser Leu Ile Ala Gln Thr Pro

				85					90				95				
Cys	Thr	Gly	Phe	Tyr	Leu	Pro	Ala	Ser	Thr	Ala	Cys	Glu	Leu	Ile	Gln		
			100					105					110				
Glu	Ala	His	Val	Trp	Gln	Glu	Ala	Phe	Cys	Trp	Leu	Ser	Trp	Leu	Asn		
		115					120					125					
His	Leu	Leu	Gly	Lys	Arg	Asp	Ile	Gln	Leu	Ile	Gly	Asn	Asn	Ser	Tyr		
	130					135					140						
Ser	Gln	Ile	Arg	Ala	Met	Leu	Leu	Asn	Met	Ala	Glu	Trp	Asp	Asp	Ala		
145					150					155					160		
Leu	Arg	Ser	Lys	Ile	Gly	Val	Met	Asn	His	Ile	Gln	Arg	Ser	Thr	Arg		
			165					170						175			
Ile	Ser	Arg	Ser	Val	Val	Ala	Glu	Val	Leu	Ala	Ala	Leu	Arg	Gln	Gly		
			180					185					190				
Asn	Tyr	Ile	Asn	Met	Ser	Arg	Gly	Lys	Leu	Val	Ser	Ile	Asn	Arg	Leu		
		195					200					205					
Pro	Thr	Asp	Tyr														
	210																

<210> 8431

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 8431

Ser	Asp	Tyr	Ala	Leu	Pro	Leu	Thr	Leu	Leu	Trp	Thr	Gly	Arg	Arg	Trp		
1				5				10					15				
Ala	Tyr	Leu	Ala	Ile	Val	Leu	Asp	Leu	Phe	Ala	Arg	Lys	Pro	Val	Gly		
		20					25					30					
Trp	Ala	Met	Ser	Phe	Ser	Pro	Asp	Ser	Lys	Leu	Thr	Ile	Lys	Ala	Leu		
	35						40					45					
Glu	Met	Ala	Trp	Glu	Thr	Arg	Asp	Lys	Pro	Ala	Gly	Val	Met	Phe	Pro		
	50					55					60						
Ser	Asp	Gln	Gly	Ser	His	Tyr	Thr	Ser	Arg	Gln	Ile	Arg	Gln	Leu	Leu		
65				70					75					80			
Trp	Arg	Tyr	Arg	Ile	Arg	Gln	Ser	Met	Ser	Arg	Arg	Gly	Asn	Cys	Trp		
				85				90					95				
Asp	Asn	Ser	Pro	Met	Glu	Arg	Phe	Phe	Arg	Ser	Leu	Lys	Asn	Glu	Trp		
			100					105					110				
Val	Pro	Val	Thr	Gly	Tyr	Ile	Asn	Phe	Ser	Glu	Ala	Ala	His	Ala	Ile		
		115					120					125					
Thr	Asp	Tyr	Ile	Val	Gly	Tyr	Tyr	Ser	Ser	Val	Arg	Pro	His	Asp	Tyr		
	130					135					140						
Asn	Gly	Gly	Leu	Pro	Pro	Asn	Glu	Ser	Glu	Asn	Arg	Tyr	Trp	Lys	Asn		
145				150					155						160		
Ser	Lys	Ala	Val	Ala	Ser	Phe	Gly										
				165													

<210> 8432

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 8432

Arg	Leu	Tyr	Arg	Gln	Arg	Tyr	Val	Ile	Ala	Pro	Leu	Thr	Gln	Thr	Leu		
1				5				10					15				
Pro	Ser	Gln	Ser	Thr	Pro	Ala	Cys	Thr	Ser	His	Asp	Val	Gln	Ala	Leu		
		20					25					30					
Ser	Ser	Ala	Pro	Pro	Glu	Pro	Pro	Ala	Arg	Ser	His	Arg	Leu	Gly	Phe		
		35					40					45					
Pro	Pro	Ala	Ser	Ala	Ala	Trp	Ser	Ser	Ile	Leu	Arg	Leu	Arg	Thr	Cys		
	50					55					60						

Pro Ser Leu Pro Gly Gln Pro Ala Pro Phe Gln Pro Gly His Ser Pro
 65 70 75 80
 Val Asp Arg Lys Thr Gln Pro Asp Arg Ala Glu
 85 90

<210> 8433

<211> 317

<212> PRT

<213> Enterobacter cloacae

<400> 8433

Pro Arg Arg Ser Leu Asn Met Ser Gln Asn Asn Pro Leu Thr Ala Leu
 1 5 10 15
 Leu Glu Asn Gln Pro Phe Val Val Leu Asp Gly Ala Met Ala Thr Glu
 20 25 30
 Leu Glu Ala Arg Gly Cys Asn Leu Ala Asp Ser Leu Trp Ser Ala Lys
 35 40 45
 Val Leu Met Glu Asn Pro Glu Leu Ile Arg Asp Val His Leu Asp Tyr
 50 55 60
 Tyr Arg Ala Gly Ala Gln Val Ala Ile Thr Ala Ser Tyr Gln Ala Thr
 65 70 75 80
 Pro Ala Gly Phe Ala Ala Arg Gly Leu Asp Glu Ser Gln Ser Arg Ala
 85 90 95
 Leu Ile Gly Lys Ser Val Glu Leu Ala Arg Lys Ala Arg Glu Val Tyr
 100 105 110
 Leu Ala Glu Asn Ala Asn Ala Gly Thr Leu Leu Val Ala Gly Ser Val
 115 120 125
 Gly Pro Tyr Gly Ala Tyr Leu Ala Asp Gly Ser Glu Tyr Arg Gly Asp
 130 135 140
 Tyr Val Arg Ser Ala Glu Glu Phe Thr Ala Phe His Arg Pro Arg Val
 145 150 155 160
 Glu Ala Leu Leu Asp Ala Gly Ala Asp Leu Leu Ala Cys Glu Thr Leu
 165 170 175
 Pro Ser Phe Thr Glu Ile Lys Ala Leu Ala Ala Leu Leu Thr Ala Tyr
 180 185 190
 Pro Arg Ala Arg Ala Trp Phe Ser Phe Thr Leu Arg Asp Ser Glu His
 195 200 205
 Leu Ser Asp Gly Thr Pro Leu Arg Asp Val Val Ser Ala Leu Glu Asn
 210 215 220
 Tyr Pro Gln Val Val Ala Leu Gly Ile Asn Cys Ile Ala Leu Glu Asn
 225 230 235 240
 Thr Thr Ser Ala Leu Thr His Leu His Ser Leu Thr Ser Leu Pro Leu
 245 250 255
 Val Val Tyr Pro Asn Ser Gly Glu His Tyr Asp Ala Val Ser Lys Thr
 260 265 270
 Trp His His His Gly Glu Ala Cys Glu Thr Leu Ala Gly Tyr Leu Pro
 275 280 285
 Gln Trp Leu Ala Ala Gly Ala Lys Leu Ile Gly Gly Cys Cys Arg Thr
 290 295 300
 Thr Pro Lys Asp Ile Ala Ala Leu Thr Val Gln Arg
 305 310 315

<210> 8434

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 8434

Asn Lys Gly Ala Ala Met Leu Asn Ile Thr Asn Leu Ser Ala Asp Tyr
 1 5 10 15
 Gly Gly Lys Pro Ala Leu Glu Ala Ile Asn Leu Thr Leu Asp Ser Gly

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<210> 8435
<211> 84
<212> PRT
<213> Enterobacter cloacae
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<210> 8436
<211> 224
<212> PRT
<213> Enterobacter cloacae
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<400> 8436
Ser Ser Ala Glu Ile Trp Ile Asn Cys Asp Leu Phe His Lys Tyr Asp
1          5          10          15
Asp Trp Glu Asp Lys Thr Pro Lys Ser Ala Arg Pro His Leu Trp Arg
          20          25          30

```

Tyr Val Ile Ala Arg Asn Leu Leu Ile Cys Arg Arg Ile Arg Leu Lys
 35 40 45
 Met Lys Thr Ile Ser Val Met Glu Ser Trp Lys Val Asn Leu Ile Ser
 50 55 60
 Val Trp Phe Gly Cys Phe Phe Thr Gly Leu Ala Ile Ser Gln Ile Leu
 65 70 75 80
 Pro Phe Leu Pro Leu Tyr Val Ser Gln Leu Gly Val Thr Ser His Glu
 85 90 95
 Ala Leu Ser Met Trp Ser Gly Leu Thr Phe Ser Val Thr Phe Leu Val
 100 105 110
 Ser Ala Ile Val Ser Pro Met Trp Gly Ser Leu Ala Asp Arg Lys Gly
 115 120 125
 Arg Lys Leu Met Leu Leu Arg Ala Ser Leu Gly Met Ala Ile Ala Ile
 130 135 140
 Leu Leu Gln Ala Phe Ala Thr Asn Val Trp Gln Leu Phe Ile Leu Arg
 145 150 155 160
 Ala Ile Met Gly Leu Thr Ser Gly Tyr Ile Pro Asn Ala Met Ala Leu
 165 170 175
 Val Ala Ser Gln Val Pro Arg Glu Arg Ser Gly Trp Ala Leu Ser Thr
 180 185 190
 Leu Ser Thr Ala Gln Ile Ser Gly Val Ile Gly Gly Pro Leu Leu Gly
 195 200 205
 Gly Phe Leu Ala Asp His Val Gly Leu Arg Ala Val Phe Ile Ile Thr
 210 215 220

<210> 8437

<211> 389

<212> PRT

<213> Enterobacter cloacae

<400> 8437

Gly Glu Asp Asp Arg Asp Ile Arg Asp Pro Met Glu Leu Met Asp Glu
 1 5 10 15
 Val Glu Asn Glu Leu Lys Ile Ala Cys Ala Pro Ile Thr Trp Pro Ile
 20 25 30
 Gly Cys Gly Lys Leu Phe Lys Gly Val Tyr His Leu Tyr Lys Asp Glu
 35 40 45
 Thr Tyr Leu Tyr Gln Thr Gly Lys Gly His Thr Ile Gln Glu Val Arg
 50 55 60
 Ile Val Lys Gly Leu Asp Asn Pro Asp Leu Asp Ala Ala Val Gly Glu
 65 70 75 80
 Glu Leu Ala Ala Gln Leu His Asp Glu Leu Glu Leu Val Lys Gly Ala
 85 90 95
 Ser His Glu Phe Asp Arg Glu Leu Phe Leu Ser Gly Glu Ile Thr Pro
 100 105 110
 Val Phe Phe Gly Thr Ala Leu Gly Asn Phe Gly Val Asp His Met Leu
 115 120 125
 Asp Gly Leu Val Glu Trp Ala Pro Gln Pro Met Pro Arg Lys Thr Asp
 130 135 140
 Thr Arg Glu Val Glu Ala Lys Glu Glu Lys Phe Ser Gly Phe Val Phe
 145 150 155 160
 Lys Ile Gln Ala Asn Met Asp Pro Lys His Arg Asp Arg Val Ala Phe
 165 170 175
 Met Arg Val Val Ser Gly Lys Tyr Glu Lys Gly Met Lys Leu Arg Gln
 180 185 190
 Val Arg Ile Gly Lys Asp Val Val Ile Ser Asp Ala Leu Thr Phe Met
 195 200 205
 Ala Gly Asp Arg Ser His Val Glu Glu Ala Tyr Pro Gly Asp Ile Ile
 210 215 220
 Gly Leu His Asn His Gly Thr Ile Gln Ile Gly Asp Thr Phe Thr Gln
 225 230 235 240

Gly Glu Met Met Lys Phe Thr Gly Ile Pro Asn Phe Ala Pro Glu Leu
 245 250 255
 Phe Arg Arg Ile Arg Leu Arg Asp Pro Leu Lys Gln Lys Gln Leu Leu
 260 265 270
 Lys Gly Leu Val Gln Leu Ser Glu Gly Ala Val Gln Val Phe Arg
 275 280 285
 Pro Ile Ala Asn Asn Asp Leu Ile Val Gly Ala Val Gly Val Leu Gln
 290 295 300
 Phe Asp Val Val Val Ala Arg Leu Lys Ser Glu Tyr Asn Val Glu Ala
 305 310 315 320
 Ile Tyr Glu Ser Val Asn Val Ala Thr Ala Arg Trp Val Glu Cys Ser
 325 330 335
 Asp Val Lys Lys Phe Glu Glu Phe Lys Arg Lys Asn Glu Val Gln Leu
 340 345 350
 Ala Leu Asp Gly Gly Asp Asn Leu Thr Tyr Ile Ala Pro Thr Met Val
 355 360 365
 Asn Leu Asn Leu Thr Gln Glu Arg Tyr Pro Asp Val Gln Phe Arg Lys
 370 375 380
 Thr Arg Glu His
 385

<210> 8438

<211> 244

<212> PRT

<213> Enterobacter cloacae

<400> 8438

Lys Glu Leu Lys Met Ala Thr Pro His Ile Asn Ala Glu Met Gly Asp
 1 5 10 15
 Phe Ala Asp Val Val Leu Met Pro Gly Asp Pro Leu Arg Ala Lys His
 20 25 30
 Ile Ala Glu Thr Phe Leu Glu Asp Val Arg Glu Val Asn Asn Val Arg
 35 40 45
 Gly Met Leu Gly Phe Thr Gly Thr Tyr Lys Gly Arg Lys Ile Ser Val
 50 55 60
 Met Gly His Gly Met Gly Ile Pro Ser Cys Ser Ile Tyr Thr Lys Glu
 65 70 75 80
 Leu Ile Thr Asp Phe Gly Val Lys Lys Ile Ile Arg Val Gly Ser Cys
 85 90 95
 Gly Ala Val Arg Met Asp Val Lys Leu Arg Asp Val Val Ile Gly Met
 100 105 110
 Gly Ala Cys Thr Asp Ser Lys Val Asn Arg Ile Arg Phe Lys Asp His
 115 120 125
 Asp Phe Ala Ala Ile Ala Asp Phe Asp Met Val Arg Asn Ala Val Asp
 130 135 140
 Ala Ala Lys Ala Leu Gly Val Asp Ala Arg Val Gly Asn Leu Phe Ser
 145 150 155 160
 Ala Asp Leu Phe Tyr Ser Pro Glu Gly Asp Met Phe Asp Val Met Glu
 165 170 175
 Lys Tyr Gly Ile Leu Gly Val Glu Met Glu Ala Ala Gly Ile Tyr Gly
 180 185 190
 Val Ala Ala Glu Phe Gly Ala Lys Ala Leu Thr Ile Cys Thr Val Ser
 195 200 205
 Asp His Ile Arg Thr His Glu Gln Thr Thr Ala Ala Glu Arg Gln Thr
 210 215 220
 Thr Phe Asn Asp Met Ile Lys Ile Ala Leu Glu Ser Val Leu Leu Gly
 225 230 235 240
 Asp Lys Glu

<210> 8439

Val Lys Lys Leu Ala Asp Ala Leu Asn Val Phe Asp Asp Leu
 450 455 460

<210> 8440

<211> 302

<212> PRT

<213> Enterobacter cloacae

<400> 8440

Thr	Ile	Met	Phe	Lys	Gln	Leu	Gln	Asp	Met	Ala	Leu	Phe	Ala	Leu	Val
1				5					10					15	
Ala	Glu	Met	Gly	Ser	Phe	Thr	Ala	Ala	Gln	Lys	Ala	Glu	Leu	Pro	
			20					25					30		
Lys	Ser	Ser	Val	Ser	Gln	Arg	Ile	Ser	Gln	Leu	Glu	Gln	Gln	Val	Gly
			35				40					45			
Ile	Arg	Leu	Leu	Asn	Arg	Thr	Thr	Arg	Arg	Ile	Ser	Leu	Thr	Phe	Ala
	50					55					60				
Gly	Glu	His	Tyr	Leu	Val	His	Cys	Arg	Glu	Met	Leu	Ala	Ala	Ser	Glu
					70					75					80
Arg	Ala	Glu	Tyr	Ala	Ile	Gln	Arg	Leu	Arg	Glu	Asn	Pro	Ser	Gly	Arg
				85					90					95	
Leu	Arg	Ile	Thr	Cys	Pro	Ala	Gly	Ile	Gly	Ala	Thr	Leu	Leu	Ala	His
			100					105					110		
Met	Asn	Ala	Glu	Phe	Gln	Leu	Arg	Tyr	Pro	Asp	Val	Ser	Leu	Asp	Val
		115					120					125			
Ser	Ile	Ser	Asp	Asp	Val	Val	Asp	Leu	Val	Glu	Ser	Gly	Phe	Asp	Val
	130					135					140				
Ala	Leu	Arg	Thr	Gly	Lys	Pro	Gln	Asp	Ser	Ser	Leu	Ile	Gly	Arg	Met
					150					155					160
Ile	Gly	His	Cys	Pro	Arg	Tyr	Met	Leu	Ala	Ser	Pro	Asp	Tyr	Leu	Ala
				165					170					175	
Arg	Arg	Glu	Pro	Leu	Ile	His	Pro	Arg	Gln	Leu	Val	Glu	His	Arg	Cys
			180					185					190		
Ile	Thr	His	Arg	Ala	Trp	Ser	Glu	Trp	Leu	Leu	Arg	Ser	Glu	Asn	Glu
			195				200					205			
Asp	Tyr	Arg	Tyr	Leu	Pro	Asp	Asn	Ala	His	Met	Thr	Asp	Asn	Leu	Val
	210					215					220				
Tyr	Ala	Arg	Glu	Cys	Ala	Ile	Ala	Gly	Ala	Gly	Ile	Thr	Leu	Leu	Pro
	225				230					235					240
Ala	Phe	Leu	Leu	Glu	Asp	Lys	Ile	Glu	Lys	Gly	Ala	Leu	Val	Lys	Val
				245					250					255	
Leu	Ser	Ala	Trp	Ser	Val	Glu	Gly	Asn	Asp	Leu	Trp	Leu	Ala	Tyr	Pro
			260					265					270		
Ser	Arg	Lys	Leu	Asn	Ser	Pro	Ala	Leu	Met	Ser	Tyr	Ile	Asp	Phe	Ala
		275					280					285			
Met	Gln	Phe	Asp	Glu	Val	Lys	Arg	Tyr	Tyr	Val	Gly	Gly			
	290					295					300				

<210> 8441

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 8441

Ala	Met	Pro	Ser	Gly	Arg	Asp	Val	Thr	Asp	Arg	Arg	Gly	Leu	Cys	Tyr
1				5					10					15	
Ala	Val	Leu	Ala	Asn	Glu	Tyr	Lys	Arg	Gln	His	Asn	Met	Thr	Gln	His
			20					25					30		
Ser	Pro	Tyr	Ser	Ser	Ala	Met	Ala	Glu	Gln	Arg	His	Gln	Glu	Trp	Leu
		35					40					45			
Arg	Phe	Val	Glu	Leu	Leu	Arg	Gln	Ser	Tyr	Asp	Lys	Asp	Leu	His	Leu

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<210> 8442
<211> 144
<212> PRT
<213> Enterobacter cloacae
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<210> 8443
<211> 191
<212> PRT
<213> Enterobacter cloacae
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<400> 8443															
Arg	Lys	Lys	Ser	Met	Leu	Gln	Val	Tyr	Leu	Val	Arg	His	Gly	Glu	Thr
1				5					10					15	
Gln	Trp	Asn	Ala	Glu	Arg	Arg	Ile	Gln	Gly	Gln	Ser	Asp	Ser	Pro	Leu
			20					25					30		
Thr	Asp	Lys	Gly	Val	Gln	Gln	Ala	Trp	Gln	Val	Ala	Glu	Arg	Ala	Arg
		35					40					45			
Thr	Leu	Gly	Ile	Thr	His	Val	Ile	Ser	Ser	Asp	Leu	Gly	Arg	Thr	Gln
	50					55					60				
Gln	Thr	Ala	Arg	Ile	Ile	Ala	Asp	Ala	Cys	Gly	Cys	Asp	Val	Thr	Leu
65					70					75					80
Glu	Pro	Arg	Leu	Arg	Glu	Leu	Asp	Met	Gly	Val	Leu	Glu	Lys	Arg	Pro
				85					90					95	
Ile	Asp	Thr	Leu	Thr	Glu	Thr	Glu	Glu	Gly	Trp	Arg	Arg	Thr	Leu	Val
			100					105					110		

Asn	Gly	Thr	Glu	Asp	Gly	Arg	Ile	Pro	Glu	Gly	Glu	Ser	Met	Gln	Glu
		115					120					125			
Leu	Ser	Val	Arg	Met	His	Ala	Ala	Leu	Ala	Glu	Cys	Leu	Lys	Leu	Pro
		130				135					140				
Ala	Gly	Ser	Arg	Pro	Leu	Leu	Val	Ser	His	Gly	Ile	Ala	Leu	Gly	Cys
145					150					155					160
Leu	Val	Ser	Thr	Ile	Leu	Gly	Leu	Pro	Ala	Tyr	Ala	Glu	Arg	Arg	Leu
			165						170					175	
Arg	Leu	Arg	Asn	Cys	Ser	Ile	Ser	Arg	Ile	Asp	Tyr	His	Glu	Xaa	
			180					185					190		

<210> 8444

<211> 214

<212> PRT

<213> Enterobacter cloacae

<400> 8444

Trp	Ala	Lys	His	Arg	Asn	Lys	Ser	Met	Asn	Met	Thr	Arg	Leu	Lys	Ile
1				5					10					15	
Ser	Lys	Thr	Leu	Leu	Ala	Val	Thr	Leu	Gly	Ser	Val	Leu	Val	Ser	Gly
			20					25					30		
Ser	Ala	Leu	Ala	Glu	Ser	Ser	Thr	Met	Asp	Lys	Ala	Gln	Ser	Ser	Ala
		35					40				45				
Asn	Thr	Ala	Gly	Glu	Lys	Ile	Asp	Ser	Ser	Met	Asn	Lys	Val	Gly	Asn
	50					55					60				
Phe	Met	Asp	Asp	Ser	Ser	Ile	Thr	Ala	Lys	Val	Lys	Ala	Ala	Leu	Val
65					70					75					80
Asp	His	Asp	Ser	Ile	Lys	Ser	Thr	Asp	Ile	Ser	Val	Lys	Thr	Asp	Asn
				85				90						95	
Lys	Val	Val	Thr	Leu	Ser	Gly	Phe	Val	Glu	Ser	Gln	Thr	Gln	Ala	Glu
			100					105					110		
Glu	Ala	Val	Lys	Val	Ala	Lys	Gly	Val	Glu	Gly	Val	Ser	Ser	Val	Ser
		115					120					125			
Asp	Lys	Leu	His	Val	Arg	Asp	Ser	Lys	Glu	Ser	Ser	Val	Lys	Gly	Tyr
	130					135					140				
Ala	Gly	Asp	Ala	Ala	Thr	Thr	Ser	Glu	Ile	Lys	Ala	Lys	Leu	Leu	Ala
145					150					155					160
Asp	Asp	Ile	Val	Pro	Ser	Arg	Met	Val	Lys	Val	Glu	Thr	Thr	Asp	Gly
				165					170					175	
Val	Val	Gln	Leu	Ser	Gly	Thr	Val	Glu	Asn	Gln	Ala	Gln	Ser	Asp	Arg
			180					185					190		
Ala	Glu	Ser	Ile	Ala	Lys	Ala	Ile	Asp	Gly	Val	Lys	Ser	Val	Lys	Asn
		195					200					205			
Asp	Leu	Lys	Thr	Lys											
															210

<210> 8445

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 8445

Arg	Gly	Ser	Gly	Met	Thr	His	Cys	Phe	Ile	Asp	Thr	His	Cys	His	Phe
1				5					10					15	
Asp	Phe	Pro	Pro	Phe	Ser	Gly	Glu	Glu	Thr	Ser	Ser	Leu	Ala	Arg	Ala
			20					25					30		
Ala	Glu	Ala	Gly	Val	Arg	Ala	Ile	Ile	Val	Pro	Ala	Ile	Glu	Ala	Ala
		35					40					45			
Arg	Phe	Asp	Lys	Val	Leu	Ala	Leu	Ala	Arg	Gly	His	Asp	Ala	Leu	Tyr
	50					55					60				
Ala	Ala	Leu	Gly	Leu	His	Pro	Ile	Val	Ile	Glu	His	His	Leu	Asp	Asp

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<210> 8446
<211> 156
<212> PRT
<213> Enterobacter cloacae
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<210> 8447
<211> 413
<212> PRT
<213> Enterobacter cloacae
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<400> 8447																
Val	Arg	Arg	Thr	Ile	Met	Lys	Arg	Ala	Phe	Ile	Met	Val	Leu	Asp	Ser	
1				5					10					15		
Phe	Gly	Ile	Gly	Ala	Thr	Glu	Asp	Ala	Glu	Arg	Phe	Gly	Asp	Val	Gly	
			20					25					30			
Ser	Asp	Thr	Leu	Gly	His	Ile	Ala	Glu	Ala	Cys	Ala	Lys	Gly	Glu	Ala	
			35				40					45				
Asp	Asn	Gly	Arg	Lys	Gly	Pro	Leu	Asn	Leu	Pro	Asn	Leu	Thr	Arg	Leu	
	50					55					60					
Gly	Leu	Val	Lys	Ala	His	Glu	Gly	Ser	Thr	Gly	Lys	Ile	Ala	Ala	Gly	
65					70					75					80	
Met	Asp	Gly	Asn	Ala	Glu	Val	Val	Gly	Ala	Tyr	Ala	Trp	Ala	His	Glu	
				85					90					95		
Leu	Ser	Ser	Gly	Lys	Asp	Thr	Pro	Ser	Gly	His	Trp	Glu	Ile	Ala	Gly	
			100					105					110			
Val	Pro	Val	Leu	Phe	Asp	Trp	Gly	Tyr	Phe	Ser	Asp	His	Glu	Asn	Ser	
		115					120					125				
Phe	Pro	Gln	Glu	Leu	Leu	Asp	Lys	Leu	Val	Lys	Arg	Ala	Asn	Leu	Pro	
		130				135					140					
Gly	Tyr	Leu	Gly	Asn	Cys	His	Ser	Ser	Gly	Thr	Val	Ile	Leu	Asp	Gln	
145					150					155					160	
Leu	Gly	Glu	Glu	His	Met	Lys	Thr	Gly	Lys	Pro	Ile	Phe	Tyr	Thr	Ser	
				165					170						175	

Ala	Asp	Ser	Val	Phe	Gln	Ile	Ala	Cys	His	Glu	Glu	Thr	Phe	Gly	Leu
			180					185					190		
Asp	Lys	Leu	Tyr	Glu	Leu	Cys	Glu	Ile	Ala	Arg	Glu	Glu	Leu	Thr	Glu
		195					200					205			
Gly	Gly	Tyr	Asn	Ile	Gly	Arg	Val	Ile	Ala	Arg	Pro	Phe	Ile	Gly	Asp
	210					215					220				
Lys	Ala	Gly	Asn	Phe	Gln	Arg	Thr	Gly	Asn	Arg	His	Asp	Leu	Ala	Val
225					230					235					240
Glu	Pro	Pro	Ala	Pro	Thr	Val	Leu	Gln	Lys	Leu	Val	Asp	Glu	Lys	Asp
			245						250					255	
Gly	His	Val	Val	Ser	Val	Gly	Lys	Ile	Ala	Asp	Ile	Tyr	Ala	Asn	Cys
			260					265					270		
Gly	Ile	Thr	Lys	Lys	Val	Lys	Ala	Thr	Gly	Leu	Asp	Ala	Leu	Phe	Asp
		275					280					285			
Ala	Thr	Ile	Lys	Glu	Met	Lys	Glu	Ala	Gly	Asp	Lys	Thr	Ile	Val	Phe
	290					295					300				
Thr	Asn	Phe	Val	Asp	Phe	Asp	Ser	Ser	Trp	Gly	His	Arg	Arg	Asp	Val
305					310					315					320
Ala	Gly	Tyr	Ala	Ala	Gly	Leu	Glu	Leu	Phe	Asp	Arg	Arg	Leu	Pro	Glu
			325						330					335	
Leu	Met	Glu	Leu	Val	Gly	Glu	Asp	Asp	Ile	Leu	Ile	Leu	Thr	Ala	Asp
			340					345					350		
His	Gly	Cys	Asp	Pro	Thr	Trp	Thr	Gly	Thr	Asp	His	Thr	Arg	Glu	His
		355					360					365			
Ile	Pro	Val	Leu	Val	Tyr	Gly	Pro	Lys	Val	Lys	Pro	Gly	Ser	Leu	Gly
	370					375					380				
His	Arg	Glu	Thr	Phe	Ala	Asp	Ile	Gly	Gln	Thr	Ile	Ala	Lys	Tyr	Phe
385					390					395					400
Gly	Thr	Ser	Asp	Met	Glu	Tyr	Gly	Lys	Ala	Met	Phe				
				405					410						

<210> 8448

<211> 357

<212> PRT

<213> Enterobacter cloacae

<400> 8448

Asn	Leu	Arg	Leu	Asn	Val	Ala	Arg	Ser	Asp	Gly	Tyr	Arg	Val	Ala	Ser
1				5					10					15	
Cys	Val	Ile	Phe	Pro	Leu	Glu	Pro	Ser	Gly	Ala	Asn	Glu	Ile	Thr	Gly
			20					25					30		
Ala	Ser	Met	Pro	Asn	Ile	Thr	Trp	Cys	Asp	Leu	Pro	Thr	Asp	Val	Ser
		35					40					45			
Leu	Trp	Pro	Gly	Leu	Pro	Leu	Ser	Leu	Ser	Gly	Asp	Glu	Val	Met	Pro
	50					55					60				
Leu	Asp	Tyr	His	Ala	Gly	Arg	Ser	Gly	Trp	Leu	Leu	Tyr	Gly	Arg	Gly
65					70					75					80
Leu	Asp	Lys	Gln	Arg	Leu	Thr	Gln	Tyr	Gln	Thr	Lys	Leu	Gly	Ala	Ala
			85						90					95	
Met	Val	Ile	Val	Ala	Ala	Trp	Cys	Val	Glu	Asp	Tyr	Gln	Val	Ile	Arg
			100					105					110		
Leu	Ala	Gly	Ser	Leu	Thr	Gln	Arg	Ala	Thr	Arg	Leu	Ala	His	Asp	Ala
		115					120					125			
Gly	Leu	Asp	Val	Ala	Pro	Leu	Gly	Lys	Ile	Pro	His	Leu	Lys	Thr	Pro
	130					135					140				
Gly	Leu	Leu	Val	Met	Asp	Met	Asp	Ser	Thr	Ala	Ile	Gln	Ile	Glu	Cys
145					150					155					160
Ile	Asp	Glu	Ile	Ala	Lys	Leu	Ala	Gly	Ser	Gly	Glu	Leu	Val	Ala	Glu
				165					170					175	
Val	Thr	Glu	Arg	Ala	Met	Arg	Gly	Glu	Leu	Asp	Phe	Thr	Ala	Ser	Leu
			180					185					190		

Arg Gln Arg Val Ala Thr Leu Lys Gly Ala Asp Ala Asn Ile Leu Arg
 195 200 205
 Gln Val Arg Asp Glu Leu Pro Leu Met Pro Gly Leu Thr Gln Leu Val
 210 215 220
 Leu Lys Leu Glu Thr Leu Gly Trp Lys Val Ala Ile Ala Ser Gly Gly
 225 230 235 240
 Phe Thr Phe Phe Ala Asp Tyr Leu Arg Asp Lys Leu Arg Leu Thr Thr
 245 250 255
 Val Val Ala Asn Glu Leu Glu Ile Met Asp Gly Lys Leu Thr Gly Gln
 260 265 270
 Val Ile Gly Asp Ile Val Asp Ala Gln Tyr Lys Ala Asn Thr Leu Thr
 275 280 285
 Arg Leu Ala Glu Lys Tyr Ala Ile Pro Val Glu Gln Thr Val Ala Ile
 290 295 300
 Gly Asp Gly Ala Asn Asp Leu Pro Met Ile Lys Val Ala Gly Leu Gly
 305 310 315 320
 Ile Ala Tyr His Ala Lys Pro Lys Val Asn Glu Lys Thr Glu Val Thr
 325 330 335
 Ile Arg His Ala Asp Leu Met Gly Val Phe Cys Ile Leu Ser Gly Ser
 340 345 350
 Ile Asn Gln Lys
 355

<210> 8449

<211> 590

<212> PRT

<213> Enterobacter cloacae

<400> 8449

Lys Thr Ala Thr Glu Val Ala Val Leu Leu Leu Phe Arg Asn Thr Leu
 1 5 10 15
 Val Leu Asn Thr Leu Arg Leu Gln Arg Val Cys Ala Gln Arg Ala Phe
 20 25 30
 Leu Val Leu Phe Val Phe Gly Glu Val Thr Phe Glu Glu Leu His Leu
 35 40 45
 Thr Phe Val Leu Val Val Gln Asp Val Gly Arg Asp Thr Val Gln Glu
 50 55 60
 Pro Ala Val Val Arg Asp Asn His Arg Ala Ala Arg Glu Leu Gln Gln
 65 70 75 80
 Gly Val Phe Gln Cys Ala Gln Gly Phe Asp Val Gln Val Val Gly Gly
 85 90 95
 Phe Ile Glu Gln Gln Asn Val Ala Ala Asn Leu Glu Gln Phe Arg Gln
 100 105 110
 Val Gln Thr Thr Ala Phe Ala Ala Gly Gln Phe Ala His Ala Phe Ala
 115 120 125
 Leu Val Gly Ala Leu Glu Val Lys Ala Ala Asn Ile Gly Ala Ala Trp
 130 135 140
 His Leu Gly Val Ala Asp Thr His Asp Ile Gln Thr Ala Gly Asp Phe
 145 150 155 160
 Phe Pro His Gly Phe Ala Val Val His Arg Val Ala Glu Leu Val Asn
 165 170 175
 Gly Gly Gln Leu His Gly Leu Thr Gln Gly Asp Arg Ala Ala Val Arg
 180 185 190
 Leu Phe Leu Thr Arg His His Ala Glu Gln Gly Gly Phe Thr Arg Ala
 195 200 205
 Val Arg Thr Asp Asp Ala Asp Asp Ser Ala Phe Arg Asn Gly Glu Gly
 210 215 220
 Gln Ile Val Asp Gln His Ala Val Ala Val Gly Leu Thr Gln Val Ser
 225 230 235 240
 His Phe Asn His Phe Ile Pro Gln Thr Ser Ser Arg Trp Asn Lys Gln
 245 250 255

Phe	Val	Gly	Phe	Val	Thr	Phe	Leu	Val	Phe	Gly	Val	Val	Gln	Leu	Phe
			260					265					270		
Glu	Ala	Cys	Gln	Thr	Gly	Phe	Ala	Leu	Arg	Leu	Thr	Ala	Phe	Arg	Ala
		275					280					285			
Leu	Thr	His	Pro	Leu	Gln	Leu	Phe	Leu	Asn	Arg	Leu	Thr	Ala	Gly	Gly
	290					295					300				
Phe	Leu	Arg	Arg	Phe	Leu	Arg	Gln	Thr	Leu	Val	Phe	Leu	Leu	Gln	Pro
305					310					315					320
Gly	Gly	Val	Val	Ala	Phe	Pro	Arg	Asn	Thr	Phe	Ala	Ala	Val	Gln	Leu
				325					330					335	
Gln	Asp	Pro	Ala	Arg	Asn	Val	Val	Glu	Glu	Val	Thr	Val	Val	Gly	Asn
			340					345					350		
Arg	Tyr	His	Gly	Ala	Phe	Glu	Val	Met	Gln	Glu	Ala	Leu	Gln	Pro	Arg
		355					360					365			
His	Gly	Phe	Gly	Ile	Gln	Val	Val	Gly	Arg	Phe	Val	Glu	Gln	Gln	His
	370					375					380				
Val	Trp	Phe	Phe	Gln	Gln	Gln	Ala	Ala	Gln	Arg	His	Ala	Ala	Ala	Phe
385					390					395					400
Thr	Thr	Gly	Gln	Val	Ser	Asp	Phe	Arg	Ile	Pro	Val	Trp	Gln	Thr	Gln
				405					410					415	
Gly	Ile	Ser	Arg	Ala	Leu	Gln	Leu	His	Val	Gln	Val	Val	Thr	Ile	Val
			420					425					430		
Arg	Leu	Asp	Asn	Phe	Leu	Ile	Phe	Ala	Leu	Leu	Ser	Gly	Gln	Phe	Val
		435					440					445			
Glu	Val	Arg	Ile	Arg	Leu	Gly	Val	Phe	Gly	Ile	His	Phe	Ile	Gln	Thr
	450					455					460				
Phe	Gln	Gly	Val	Asn	His	Leu	Gly	Tyr	Arg	Phe	Phe	Asn	Gly	Phe	Thr
465					470					475					480
His	Gly	Val	Leu	Arg	Val	Gln	Leu	Arg	Phe	Leu	Arg	Gln	Val	Ala	Asp
				485					490					495	
Leu	Asn	Ala	Arg	Leu	Arg	Thr	Gly	Phe	Thr	Phe	Asp	Val	Cys	Ile	Asp
			500					505					510		
Ala	Gly	His	Asp	Ala	Gln	Gln	Gly	Gly	Leu	Thr	Gly	Thr	Val	Glu	Thr
		515					520					525			
Gln	Asn	Thr	Asp	Phe	Cys	Ala	Arg	Glu	Glu	Ala	Gln	Arg	Asp	Ile	Phe
						535					540				
Lys	Asn	Met	Thr	Phe	Arg	Arg	Asp	Asn	Phe	Ala	Asp	Thr	Met	His	Gly
545					550					555					560
Ile	Asn	Glu	Leu	Ser	His	Val	Gly	Leu	Arg	Leu	Phe	Tyr	Arg	Asp	Glu
				565					570					575	
Asn	Glu	Phe	Gln	Pro	Arg	Ser	Val	Ala	Phe	Phe	Thr	Pro			
			580					585					590		

<210> 8450

<211> 371

<212> PRT

<213> Enterobacter cloacae

<400> 8450

Glu	Pro	Pro	Gly	Lys	Cys	Val	Thr	Val	Ser	His	His	Asn	Asn	Glu	Asn
1				5					10					15	
Arg	Lys	Ala	Glu	Val	Gly	Gln	Arg	Ile	Pro	Val	Thr	Leu	Gly	Asn	Ile
		20						25					30		
Ala	Pro	Leu	Thr	Leu	Lys	Pro	Phe	His	Ala	Asp	Gln	Leu	Ala	Leu	Val
		35					40					45			
Cys	Glu	Gly	Gly	Gly	Gln	Arg	Gly	Ile	Phe	Thr	Ala	Gly	Val	Leu	Asp
	50					55					60				
Glu	Phe	Met	Arg	Ala	Gln	Phe	Asn	Pro	Phe	Asp	Leu	Tyr	Phe	Gly	Thr
65					70					75					80
Ser	Ala	Gly	Ala	Gln	Asn	Leu	Ser	Ala	Tyr	Val	Cys	Asn	Gln	Pro	Gly
				85					90					95	

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Tyr Ala Arg Lys Val Ile Met Arg Tyr Thr Thr Ser Lys Glu Phe Phe
      100      105
Asn Pro Val Arg Phe Val Arg Gly Gly Asn Leu Ile Asp Leu Asp Trp
      115      120      125
Leu Leu Asp Ala Thr Ser Ser Gln Met Pro Leu Ala Met Asp Thr Ala
      130      135      140
Ser Arg Leu Phe Asp Thr Gly Lys Glu Phe Trp Met Cys Ala Ser Arg
145      150      155      160
Gly Asp Asp Tyr Ser Pro Gly Tyr Phe Ser Pro Gln Lys Glu Asn Trp
      165      170      175
Leu Asp Ile Ile Arg Ala Ser Ser Ala Ile Pro Gly Phe Tyr Arg Thr
      180      185      190
Gly Ala Leu Leu Glu Gly Ile Ser Tyr Leu Asp Gly Gly Ile Ser Asp
      195      200      205
Ala Val Pro Val Gln Glu Ala Ala Arg Arg Gly Ala Lys Thr Ile Val
      210      215      220
Val Ile Arg Thr Val Pro Ser Gln Met Tyr Tyr Thr Pro Gln Trp Phe
225      230      235      240
Lys Arg Met Glu Arg Trp Leu Gly Asp Ser Ser Leu Gln Pro Leu Val
      245      250      255
Asn Ile Ala Lys Gln His Glu Thr Thr Tyr Gly Ala Met Gln Arg Phe
      260      265      270
Ile Glu Lys Pro Pro Gly Lys Leu Arg Ile Phe Glu Ile Tyr Pro Pro
      275      280      285
Lys Pro Leu Leu Ser Met Ala Leu Gly Ser Arg Leu Pro Ala Leu Arg
      290      295      300
Met Asp Tyr Lys Thr Gly Arg Leu Cys Gly Arg Tyr Phe Leu Ala Thr
305      310      315      320
Val Gly Lys Met Leu Ala Glu Gln Pro Pro Leu His Arg His Lys Ser
      325      330      335
Ile Ile Leu Pro Pro Ala Val Val Ala Asn Asp Ala Val Ala Met Pro
      340      345      350
Leu Val Asp Ala Pro Gln Ala Asn Asp Gly Leu Leu Asp Asn Glu Asp
      355      360      365
Leu Ala
      370

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<210> 8451

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 8451

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Ser Ala Ile Asn Ala Leu Lys Phe Glu Glu Asp Leu Ile Thr Val Met
1      5      10      15
Gln Ile Cys Thr Gln Phe Ser Leu Thr Val Met Asn Val Glu Val Trp
      20      25      30
Met Arg Val Asn Val Arg Ile Leu Thr Asp Pro Gln Gly Lys Ile Tyr
      35      40      45
Thr Ala Leu Pro Leu Glu Asn Val Met Thr Asp Leu Thr Ala Ser Ser
      50      55      60
Leu Arg Ala Leu Lys Leu Met Asp Leu Thr Thr Leu Asn Asp Asp Asp
65      70      75      80
Thr Asn Glu Lys Val Ile Ala Leu Cys His Gln Ala Lys Thr Pro Val
      85      90      95
Gly Asn Thr Ala Val Cys Ile Tyr Pro Arg Phe Ile Pro Ile Ala
      100      105      110
Arg Lys Thr Leu Lys Glu Gln Gly Thr Pro Glu Val Arg Ile Ala Thr
      115      120      125
Val Thr Asn Phe Pro His Gly Asn Asp Asp Ile Glu Ile Ala Leu Ala
      130      135      140

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Glu	Thr	Arg	Ala	Ala	Ile	Ala	Tyr	Gly	Ala	Asp	Glu	Val	Asp	Val	Val
145					150					155					160
Phe	Pro	Tyr	Arg	Ala	Leu	Ile	Ala	Gly	Asn	Glu	Gln	Val	Gly	Phe	Asp
				165					170						175
Leu	Val	Lys	Ala	Cys	Lys	Asp	Ala	Cys	Ala	Ala	Ala	Asn	Val	Leu	Leu
			180					185					190		
Lys	Val	Ile	Ile	Glu	Thr	Gly	Glu	Leu	Lys	Glu	Glu	Ala	Leu	Ile	Arg
		195					200					205			
Lys	Ala	Ser	Glu	Ile	Ser	Ile	Lys	Ala	Gly	Ala	Asp	Phe	Ile	Lys	Thr
	210					215					220				
Ser	Thr	Gly	Lys	Val	Pro	Val	Asn	Ala	Thr	Pro	Glu	Ser	Ala	Arg	Ile
225					230					235					240
Met	Met	Glu	Val	Ile	Arg	Asp	Met	Gly	Val	Ser	Lys	Thr	Val	Gly	Phe
				245					250					255	
Lys	Pro	Ala	Gly	Gly	Val	Arg	Thr	Ala	Glu	Asp	Ala	Gln	Gln	Phe	Leu
			260					265					270		
Ala	Ile	Ala	Asp	Glu	Leu	Phe	Gly	Ala	Asp	Trp	Ala	Asp	Ser	Arg	His
		275					280					285			
Tyr	Arg	Phe	Gly	Ala	Ser	Ser	Leu	Leu	Ala	Ser	Leu	Leu	Lys	Ala	Leu
	290					295					300				
Gly	His	Gly	Asp	Gly	Lys	Ser	Ala	Ser	Ser	Tyr					
305					310					315					

<210> 8452

<211> 474

<212> PRT

<213> Enterobacter cloacae

<400> 8452

Val	Glu	Leu	Pro	Gly	Gly	Ala	Thr	Leu	Thr	Arg	Pro	Lys	Gly	Ser	Trp
1				5					10					15	
Gly	Gly	Ser	Thr	Tyr	Pro	Pro	Pro	Phe	Thr	Arg	Phe	Arg	Met	Glu	Val
			20					25					30		
Thr	Val	Phe	Leu	Ala	Gln	Glu	Ile	Ile	Arg	Lys	Lys	Arg	Asp	Gly	His
		35					40					45			
Ala	Leu	Ser	Asp	Glu	Glu	Ile	Arg	Phe	Phe	Ile	Asn	Gly	Ile	Arg	Asp
	50					55				60					
Asn	Thr	Ile	Ser	Glu	Gly	Gln	Ile	Ala	Ala	Leu	Ala	Met	Thr	Ile	Phe
65				70						75					80
Phe	His	Asp	Met	Ser	Met	Pro	Glu	Arg	Val	Ser	Leu	Thr	Met	Ala	Met
				85					90					95	
Arg	Asp	Ser	Gly	Thr	Val	Leu	Asp	Trp	Lys	Ser	Leu	Asn	Leu	Asn	Gly
		100						105					110		
Pro	Ile	Val	Asp	Lys	His	Ser	Thr	Gly	Gly	Val	Gly	Asp	Val	Thr	Ser
	115						120					125			
Leu	Met	Leu	Gly	Pro	Met	Val	Ala	Ala	Cys	Gly	Gly	Tyr	Ile	Pro	Met
	130					135					140				
Ile	Ser	Gly	Arg	Gly	Leu	Gly	His	Thr	Gly	Gly	Thr	Leu	Asp	Lys	Leu
145					150					155					160
Glu	Ala	Ile	Pro	Gly	Phe	Asp	Ile	Phe	Pro	Asp	Asp	Asn	Arg	Phe	Arg
				165					170					175	
Asp	Ile	Ile	Lys	Asp	Val	Gly	Val	Ala	Ile	Ile	Gly	Gln	Thr	Ser	Ser
			180					185					190		
Leu	Ala	Pro	Ala	Asp	Lys	Arg	Phe	Tyr	Ala	Thr	Arg	Asp	Ile	Thr	Ala
	195						200					205			
Thr	Val	Asp	Ser	Ile	Pro	Leu	Ile	Thr	Ala	Ser	Ile	Leu	Ala	Lys	Lys
	210					215					220				
Leu	Ala	Glu	Gly	Leu	Asp	Ala	Leu	Val	Met	Asp	Val	Lys	Val	Gly	Ser
225					230					235					240
Gly	Ala	Phe	Met	Pro	Thr	Tyr	Glu	Leu	Ser	Glu	Ala	Leu	Ala	Glu	Ala
				245					250					255	

Ile Val Gly Val Ser Asn Gly Ala Gly Val Arg Thr Thr Ala Leu Leu
 260 265 270
 Thr Asp Met Asn Gln Val Leu Ala Ser Ser Ala Gly Asn Ala Val Glu
 275 280 285
 Val Arg Glu Ala Val Gln Phe Leu Thr Gly Glu Tyr Arg Asn Pro Arg
 290 295 300
 Leu Phe Asp Val Thr Met Ala Leu Cys Val Glu Met Leu Ile Ser Gly
 305 310 315 320
 Lys Leu Ala Lys Asp Asp Ala Asp Ala Arg Ala Lys Leu Gln Ala Val
 325 330 335
 Leu Asp Asn Gly Lys Ala Ala Glu Ile Phe Gly Arg Met Val Ala Ala
 340 345 350
 Gln Lys Gly Pro Thr Asp Phe Val Glu Asn Tyr Ala Lys Tyr Leu Pro
 355 360 365
 Thr Ala Met Leu Ser Lys Ala Val Tyr Ala Asp Ser Glu Gly Phe Val
 370 375 380
 Ser Ala Met Asp Thr Arg Ala Leu Gly Met Ala Val Val Ser Met Gly
 385 390 395 400
 Gly Gly Arg Arg Gln Ala Ser Asp Thr Ile Asp Tyr Ser Val Gly Phe
 405 410 415
 Thr Asp Met Ala Arg Leu Gly Asp Ser Val Asp Gly Gln Arg Pro Leu
 420 425 430
 Ala Val Ile His Ala Lys Asp Glu Ala Ser Trp Gln Asp Ala Ala Lys
 435 440 445
 Ala Val Lys Ala Ala Ile Ser Leu Asp Asp Lys Ala Pro Glu Thr Thr
 450 455 460
 Pro Thr Val Tyr Arg Arg Ile Thr Glu
 465 470

<210> 8453

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 8453

Asn Ser Gly Ala Gly Gly Ser Leu Asn Asp Gly Gln Pro Ala Ala Arg
 1 5 10 15
 Gly Gly Arg Ser Gly Thr Glu Pro Pro Gly Asp Pro Ala Gly Gly Ala
 20 25 30
 Ala Pro Ser Arg Arg Ser Ala Asn Gly Gly Ser Gly Arg Val Arg Gln
 35 40 45
 Cys Gly Trp Trp Gly Glu Gly Tyr Gly Asn Gln Arg Gly Pro Gly Ala
 50 55 60
 Ala Ala Gly Asn Gly Phe Gln Pro Ala Arg Gln Thr Val Ala Ala Gly
 65 70 75 80
 Ser Gly Gly Ile Trp
 85

<210> 8454

<211> 412

<212> PRT

<213> Enterobacter cloacae

<400> 8454

Phe Met Ser Ser Phe Asp Tyr Ile Lys Thr Ala Ile Arg Gln Lys Gly
 1 5 10 15
 Cys Thr Leu Gln Val Ala Asp Ala Ser Gly Met Thr Lys Gly Tyr
 20 25 30
 Leu Ser Gln Leu Leu Asn Ala Lys Ile Lys Ser Pro Ser Ala Gln Lys
 35 40 45
 Leu Glu Ala Leu His Arg Phe Leu Gly Leu Glu Phe Pro Arg Met Gln

50	55	60
Lys Asn Ile Gly Val	Val Phe Gly Lys Phe Tyr	Pro Leu His Thr Gly
65	70	75
His Ile Tyr Leu Ile	Gln Arg Ala Cys Ser Gln	Val Asp Glu Leu His
	85	90
Ile Ile Met Gly Tyr	Asp Glu Thr Arg Asp	Arg Gln Leu Phe Glu Asp
	100	105
Ser Ala Met Ser Gln	Gln Pro Thr Val Pro	Asp Arg Leu Arg Trp Leu
	115	120
Leu Gln Thr Phe Lys	Tyr Gln Lys Asn Ile	Arg Ile His Ala Phe Asn
	130	135
Glu Glu Gly Met Glu	Pro Tyr Pro His Gly	Trp Asp Val Trp Ser Asn
145	150	155
Gly Ile Lys Ala Phe	Met Glu Glu Lys Gly	Ile Ala Pro Asn Trp Ile
	165	170
Tyr Thr Ser Glu Glu	Ser Asp Ala Pro Gln	Phe Arg Glu His Leu Gly
	180	185
Ile Glu Thr Val Leu	Ile Asp Pro Lys Arg	Thr Phe Met Asn Ile Ser
	195	200
Gly Ala Gln Ile Arg	Glu Asn Pro Phe Arg	Tyr Trp Asp Tyr Ile Pro
	210	215
Thr Glu Val Lys Pro	Phe Phe Val Arg Thr	Val Ala Ile Leu Gly Gly
225	230	235
Glu Ser Ser Gly Lys	Ser Thr Leu Val Asn	Lys Leu Ala Asn Ile Phe
	245	250
Asn Thr Thr Ser Ala	Trp Glu Tyr Gly Arg	Asp Tyr Val Phe Ser His
	260	265
Leu Gly Gly Asp Glu	Met Ala Leu Gln Tyr	Ser Asp Tyr Asp Lys Ile
	275	280
Ala Leu Gly His Ala	Gln Tyr Ile Asp Phe	Ala Val Lys Tyr Ala Asn
290	295	300
Lys Val Ala Phe Ile	Asp Thr Asp Phe Val	Thr Thr Gln Ala Phe Cys
305	310	315
Lys Lys Tyr Glu Gly	Arg Glu His Pro Phe	Val Gln Ala Leu Ile Asp
	325	330
Glu Tyr Arg Phe Asp	Leu Val Ile Leu Leu	Glu Asn Asn Thr Pro Trp
	340	345
Val Ala Asp Gly Met	Arg Ser Leu Gly Ser	Ser Val Asp Arg Arg Glu
	355	360
Phe Gln Thr Met Leu	Val Glu Met Leu Asn	Glu Asn Asn Val Glu Phe
	370	375
Val His Val Glu Glu	Ser Asp Tyr Asp Thr	Arg Phe Leu Arg Cys Val
385	390	395
Glu Leu Val Lys Glu	Met Met Gly Glu Gln	Gly
	405	410

<210> 8455

<211> 661

<212> PRT

<213> Enterobacter cloacae

<400> 8455

Arg Gly Lys Thr Leu	Gln Leu Thr Lys Asn	Asn Glu Glu Glu Leu Val
1	5	10
Glu Lys Ala Lys Arg	Val Val Trp Arg	Leu Leu Ala Ala Ser Val Cys
	20	25
Val Met Ala Val Ser	Gln Ala Val His	Ala Asp Ser Leu Asp Glu Gln
	35	40
Arg Ser Arg Tyr Ala	Gln Ile Lys Gln	Ala Trp Asp Asn Lys Gln Met
	50	55
Asp Thr Val Gln Ala	Leu Met Pro Thr	Leu Lys Asp Tyr Pro Leu Tyr
	60	

65					70				75				80			
Pro	Tyr	Leu	Glu	Tyr 85	Arg	Gln	Ile	Thr	Asp 90	Asp	Leu	Met	Asn	Gln 95	Pro	
Thr	Val	Thr	Val	Asn 100	Asn	Phe	Ile	Gln 105	Ala	Asn	Pro	Thr	Leu 110	Pro	Pro	
Ala	Arg	Thr	Leu	Lys 115	Ser	Arg	Phe 120	Val	Asn	Glu	Leu	Ala 125	Arg	Arg	Glu	
Asp	Trp	Arg	Gly	Leu	Leu	Ala 135	Phe	Ser	Pro	Asp	Lys 140	Pro	Gly	Ala	Thr	
Glu 145	Ala	Gln	Cys	Asn 150	Tyr	Tyr	Tyr	Ala	Lys	Trp 155	Ala	Thr	Gly	Gln	Gln 160	
Glu	Glu	Ala	Trp	Val 165	Gly	Ala	Lys	Lys	Leu 170	Trp	Leu	Thr	Gly	Lys 175	Ser	
Gln	Pro	Asn	Ala 180	Cys	Asp	Pro	Leu	Phe 185	Ser	Ala	Trp	Arg	Ala 190	Ser	Gly	
Gln	Gln	Asp 195	Pro	Leu	Ser	Tyr 200	Leu	Glu	Arg	Ile	Arg 205	Leu	Ala	Met	Lys	
Ala	Gly 210	Asn	Thr	Arg	Leu	Val 215	Thr	Val	Leu	Ala	Gly 220	Gln	Met	Pro	Ala	
Asp 225	Tyr	Gln	Thr	Ile	Ala 230	Ser	Ala	Val	Ile	Gly 235	Leu	Ala	Asn	Asp	Pro 240	
Asn	Thr	Val	Leu	Thr 245	Phe	Ala	Arg	Thr	Thr 250	Gly	Ala	Thr	Asp 255	Phe	Thr	
Arg	Gln	Met	Ala 260	Ala	Val	Ala	Phe	Ala 265	Ser	Val	Ala	Arg 270	Asp	Asp	Val	
Glu	Asn	Ala 275	Arg	Leu	Met	Ile	Pro 280	Gln	Leu	Val	Gln 285	Ala	Gln	Gln	Leu	
Asn	Asp 290	Asp	Gln	Thr	Gln	Glu 295	Leu	Arg	Asp	Ile	Val 300	Ala	Trp	Arg	Leu	
Met 305	Gly	Thr	Asp	Val 310	Thr	Asp	Glu	Gln	Ala 315	Arg	Trp	Arg	Asp	Asp	Ala 320	
Val	Met	Arg	Ser 325	Asn	Ser	Val	Ser	Leu 330	Val	Glu	Arg	Arg	Val 335	Arg	Met	
Ala	Leu	Gly 340	Thr	Gly	Asp	Arg	Arg	Gly 345	Leu	Asn	Thr	Trp 350	Leu	Ala	Arg	
Leu	Pro	Met 355	Asp	Ala	Lys	Glu	Lys 360	Asp	Glu	Trp	Arg 365	Tyr	Trp	Gln	Ala	
Asp	Leu 370	Leu	Leu	Glu	Arg	Gly 375	Arg	Asp	Asp	Glu 380	Ala	Lys	Glu	Ile	Leu	
His 385	Ser	Leu	Met	Gln 390	Gln	Arg	Gly	Phe	Tyr 395	Pro	Met	Ala	Ala	Ala	Gln 400	
Arg	Leu	Gly	Glu	Glu 405	Tyr	Thr	Leu	Lys	Ile 410	Asp	Lys	Ala	Pro 415	Ala	Asn	
Ala	Asn	Pro	Ala 420	Leu	Thr	Gln	Gly 425	Pro	Glu	Met	Ala 430	Arg	Val	Arg	Glu	
Leu	Met	Tyr 435	Trp	Asn	Leu	Asp 440	Asn	Thr	Ala	Arg 445	Ser	Glu	Trp	Ala	Asn	
Leu	Val 450	Thr	Ser	Arg	Thr 455	Thr	Glu	Glu	Lys	Ala 460	Gln	Leu	Ala	Arg	Tyr	
Ala 465	Ser	Asp	Asn	Arg 470	Trp	Trp	Asp	Leu	Ser 475	Val	Gln	Ala	Thr	Ile	Ala 480	
Gly	Lys	Leu	Trp 485	Asp	His	Leu	Glu	Glu	Arg 490	Phe	Pro	Leu	Ala 495	Tyr	Lys	
Asp	Leu	Phe 500	Asp	Arg	Tyr	Thr	Ser 505	Gly	Lys	Asp	Ile 510	Pro	Gln	Ser	Tyr	
Ala	Met 515	Ala	Ile	Ala	Arg	Gln 520	Glu	Ser	Ala 525	Trp	Asn	Pro	Lys	Val	Arg	
Ser	Pro 530	Val	Gly	Ala	Ser 535	Gly	Leu	Met	Gln 540	Ile	Met	Pro	Gly	Thr	Ala	
Thr 545	His	Thr	Val	Lys 550	Met	Phe	Asn	Ile	Pro 555	Gly	Tyr	Ser	Ser	Pro	Ser 560	

Gln Leu Leu Asp Pro Glu Thr Asn Ile Asn Ile Gly Thr Ser Tyr Leu
 565 570 575
 Gln Tyr Val Tyr Gln Gln Phe Gly Asn Asn Arg Ile Phe Ala Ser Ala
 580 585 590
 Ala Tyr Asn Ala Gly Pro Gly Arg Val Arg Thr Trp Leu Gly Asn Ser
 595 600 605
 Ala Gly Arg Ile Asp Ala Val Ala Phe Val Glu Ser Ile Pro Phe Ser
 610 615 620
 Glu Thr Arg Gly Tyr Val Lys Asn Val Leu Ala Tyr Asp Ala Tyr Tyr
 625 630 635 640
 Arg Tyr Phe Met Gly Gln Lys Asp Thr Leu Met Ser Asp Ala Glu Trp
 645 650 655
 Gln Arg Arg Tyr
 660

<210> 8456

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 8456

His Ala Phe Phe Pro Leu Tyr Cys Asp Glu Phe Phe Lys Ser Ser Leu
 1 5 10 15
 Ile Met His His Val Val Ser Ala Thr Thr Asn Pro Ala Lys Ile Gln
 20 25 30
 Ala Ile Leu Arg Ala Phe Glu Glu Ile Phe Gly Glu Gly Ser Cys His
 35 40 45
 Ile Asp Ala Val Gly Val Glu Ser Gly Val Pro Glu Gln Pro Phe Gly
 50 55 60
 Ser Glu Glu Thr Arg Ala Gly Ala Arg Asn Arg Val Ala Asn Ala Lys
 65 70 75 80
 Ala Ala Ala Pro Asp Ala Asp Phe Trp Val Ala Ile Asp Ala Gly Ile
 85 90 95
 Asp Glu Gly Ala Thr Phe Ser Trp Val Val Ile Glu Ser Arg Glu Gln
 100 105 110
 Arg Gly Glu Ala Arg Ser Ala Thr Leu Pro Leu Pro Glu Val Ile Leu
 115 120 125
 Glu Lys Val Arg Ala Gly Glu Ala Leu Gly Pro Val Met Ser His Tyr
 130 135 140
 Thr Gly Ile Asp Asp Ile Gly Arg Lys Glu Gly Ala Ile Gly Val Phe
 145 150 155 160
 Thr Ala Gly Lys Leu Thr Arg Ser Ser Val Tyr His Gln Ala Val Ile
 165 170 175
 Leu Ala Leu Ser Pro Phe His Asn Ala Ile Tyr Arg
 180 185

<210> 8457

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 8457

Thr Ser Leu Asn Lys Thr Asn Ala Ile Glu Glu His Thr Met Ser Val
 1 5 10 15
 Lys Ala Ile Ala Val Asn Pro Glu Asn Pro Ser Thr Phe Val Glu Ile
 20 25 30
 Thr Pro Pro Met Pro Gln Pro Gly Glu His Asp Leu Leu Val Glu Val
 35 40 45
 Lys Ala Val Ser Val Asn Pro Val Asp Thr Lys Val His Ala Gly Ile
 50 55 60
 Ala Lys Ser Gly Leu Lys Glu Pro Arg Ile Leu Gly Trp Asp Ala Ser

65					70					75					80
Gly	Ile	Val	Lys	Ala	Val	Gly	Ala	Gly	Val	Thr	Gly	Phe	Lys	Pro	Gly
				85					90					95	
Asp	Glu	Val	Trp	Tyr	Ala	Gly	Asp	Ile	Thr	Arg	Pro	Gly	Ser	Asn	Thr
			100					105					110		
Thr	His	Gln	Leu	Ile	Asp	Ala	Arg	Ile	Val	Gly	His	Lys	Pro	Ala	Ser
		115				120						125			
Leu	Asp	Trp	Ala	Ala	Ala	Ala	Ala	Leu	Pro	Leu	Thr	Ala	Leu	Thr	Ala
	130					135					140				
Trp	Glu	Gly	Leu	Phe	Glu	Arg	Leu	Lys	Ile	Gln	Asp	Ala	Asp	Ala	Asp
145					150					155					160
Lys	Thr	Leu	Leu	Ile	Ile	Gly	Gly	Ala	Gly	Gly	Val	Gly	Ser	Leu	Ala
				165					170					175	
Ile	Pro	Phe	Ala	Lys	His	Asn	Ser	Lys	Val	Lys	Ile	Val	Ala	Thr	Ala
			180					185					190		
Ser	Arg	Glu	Asp	Ser	Ala	Gln	Trp	Cys	Arg	Asp	Arg	Gly	Ala	Asp	Ile
		195					200					205			
Val	Val	Asn	Tyr	Arg	Asp	Leu	Lys	Gly	Glu	Met	Ala	Lys	Gln	Gly	Leu
		210				215					220				
Thr	Phe	Val	Asp	Tyr	Ile	Phe	Ile	Leu	Asn	Asp	Thr	Asp	Gly	His	Trp
225					230					235					240
Asp	Ala	Val	Ser	Asp	Leu	Ile	Ala	Pro	Gln	Gly	His	Ile	Cys	Ser	Ile
				245					250					255	
Val	Glu	Asn	Ala	His	Pro	Leu	Asn	Gln	Asp	Lys	Leu	Lys	Ser	Lys	Ser
			260					265						270	
Ala	Ala	Leu	His	Trp	Glu	Phe	Met	Tyr	Thr	Arg	Ser	Met	Tyr	Gln	Thr
		275					280					285			
Ala	Asp	Met	Ala	Arg	Gln	Gly	Glu	Ile	Leu	Asn	Glu	Val	Ala	Lys	Leu
		290				295					300				
Val	Asp	Asn	Gly	Val	Val	Glu	Ser	Ser	Leu	Ser	Glu	Thr	Leu	His	Gly
305					310					315					320
Leu	Ser	Val	Glu	Ser	Ile	Thr	Glu	Ala	His	Arg	Lys	Val	Leu	Glu	Gly
				325					330					335	
His	Met	Arg	Gly	Lys	Val	Val	Val	Glu	Tyr						
			340					345							

<210> 8458

<211> 107

<212> PRT

<213> Enterobacter cloacae

<400> 8458

Ile	Ser	Leu	Ile	Ile	Asn	Pro	Ile	Lys	Cys	Glu	Leu	Cys	Leu	Leu	Leu
1				5					10					15	
Thr	Glu	Glu	Val	Phe	Cys	Gln	Val	Lys	Gly	Leu	Ile	Leu	Met	Ser	Val
			20					25					30		
Glu	Ser	Thr	Ile	Ala	Gln	Cys	Ala	Ile	Ala	Ala	Pro	Leu	Phe	Ser	
		35					40					45			
Ala	Leu	Phe	Ala	Gln	Ala	Tyr	Ala	Ala	Gly	Met	Val	Pro	Glu	Thr	Thr
		50				55					60				
Leu	Leu	Val	Ile	Glu	Glu	Ser	Thr	His	Ser	Gly	Thr	Met	Asn	Val	Lys
65				70					75						80
Asn	Thr	Asp	Thr	Phe	Pro	Ala	Leu	Ile	Tyr	Thr	Ile	Ile	Val	Asp	Leu
				85					90					95	
Pro	Asp	Asp	Thr	Gly	Val	Thr	Leu	Asn	Ala						
			100					105							

<210> 8459

<211> 543

<212> PRT

<213> Enterobacter cloacae

<400> 8459

Leu	Asn	Arg	Arg	Tyr	Pro	Leu	Ser	Asp	Gln	Ser	Ala	Thr	Arg	Leu	Ala
1				5					10					15	
Ser	Tyr	Asn	Ser	Phe	Thr	Ile	Arg	Arg	Thr	Thr	Lys	Glu	Val	Asn	Met
			20					25					30		
Pro	Asp	Ala	Leu	Gln	Gln	Arg	Cys	Gln	His	Ile	Val	Thr	Ser	Pro	Val
		35					40					45			
Leu	Thr	Pro	Glu	Gln	Lys	Arg	His	Phe	Leu	Ala	Leu	Glu	Ala	Glu	Asn
	50					55					60				
Asn	Leu	Pro	Tyr	Pro	Ala	Leu	Pro	Glu	Ala	Ala	Arg	Ala	Ala	Leu	Asp
65					70				75						80
Glu	Gly	Phe	Ile	Cys	Asp	Met	Phe	Glu	Gly	His	Ala	Pro	Tyr	Lys	Pro
				85					90					95	
Arg	Tyr	Val	Leu	Pro	Asp	Tyr	Ala	Lys	Phe	Leu	Ala	Asn	Gly	Ser	Glu
			100					105					110		
Trp	Leu	Glu	Leu	Glu	Gly	Ala	Lys	Asp	Leu	Asp	Asp	Ala	Leu	Ser	Leu
		115					120					125			
Leu	Thr	Ile	Leu	Tyr	His	His	Val	Pro	Ser	Val	Thr	Ser	Met	Pro	Val
	130					135					140				
Tyr	Leu	Gly	Gln	Leu	Asp	Glu	Ile	Leu	Ser	Pro	Tyr	Val	Lys	Ile	Leu
145					150					155					160
Thr	Gln	Asp	Glu	Ile	Asp	Ser	Arg	Ile	Lys	Arg	Phe	Trp	Arg	Tyr	Leu
				165					170					175	
Asp	Arg	Thr	Leu	Pro	Asp	Ala	Phe	Met	His	Ala	Asn	Ile	Gly	Pro	Ala
			180					185					190		
Asp	Thr	Pro	Val	Thr	Arg	Ala	Ile	Leu	Arg	Ala	Asp	Ala	Glu	Leu	Lys
		195					200					205			
Gln	Val	Ala	Pro	Asn	Leu	Thr	Phe	Ile	Tyr	Asp	Pro	Asp	Val	Thr	Pro
	210					215					220				
Ser	Asp	Leu	Leu	Leu	Ser	Val	Ala	Lys	Asn	Ile	Cys	Glu	Cys	Ser	Lys
225					230					235					240
Pro	His	Ile	Ser	Asn	Gly	Pro	Val	Asn	Asp	Lys	Ile	Phe	Thr	Lys	Gly
				245					250					255	
Arg	Tyr	Gly	Val	Val	Ser	Cys	Tyr	Asn	Ser	Leu	Pro	Leu	Ala	Gly	Gly
			260					265					270		
Gly	Ser	Thr	Leu	Val	Arg	Leu	Asn	Leu	Lys	Ala	Ile	Ala	Glu	His	Ser
		275					280					285			
Arg	Ser	Pro	Glu	Asp	Phe	Phe	Thr	Arg	Thr	Leu	Pro	His	Tyr	Cys	Gln
		290				295					300				
Gln	Gln	Ile	Ala	Ile	Ile	Asn	Ala	Arg	Cys	Asp	Phe	Leu	Tyr	Glu	Gln
305					310					315					320
Ser	Gly	Phe	Phe	Glu	Asn	Ser	Phe	Leu	Val	Lys	Glu	Gly	Leu	Ile	Asp
				325					330					335	
Ala	Asp	Arg	Phe	Val	Pro	Met	Phe	Gly	Met	Tyr	Gly	Leu	Ala	Glu	Ala
			340					345					350		
Val	Asn	Val	Leu	Cys	Gln	Lys	Ala	Gly	Ile	Thr	Gly	Arg	Tyr	Gly	Lys
		355					360					365			
Asn	Glu	Gln	Ala	Asn	Ala	Leu	Gly	Tyr	Arg	Ile	Ser	Glu	Gln	Leu	Ala
	370					375					380				
Ala	Phe	Val	Glu	Asn	Thr	Pro	Val	Lys	His	Gly	Trp	Lys	Gln	Arg	Ala
385					390					395					400
Met	Leu	His	Ala	Gln	Ser	Gly	Ile	Ser	Ser	Asp	Ser	Gly	Thr	Thr	Pro
				405					410					415	
Gly	Ala	Arg	Leu	Pro	Tyr	Gly	Asp	Glu	Pro	Asp	Pro	Ile	Ser	His	Leu
			420					425					430		
Leu	Ala	Val	Ala	Pro	His	His	Lys	His	Tyr	Ala	Ser	Gly	Ile	Ser	Asp
		435					440					445			
Ile	Leu	Thr	Leu	Asp	Glu	Thr	Val	Lys	Arg	Asn	Pro	Gln	Ala	Val	Val
	450					455					460				
Gln	Leu	Cys	Leu	Gly	Ala	Phe	Arg	Ala	Gly	Met	Arg	Glu	Phe	Thr	Ala

465					470					475				480
Asn	Val	Ala	Gly	Asn	Asp	Leu	Val	Arg	Val	Thr	Gly	Tyr	Met	Val Arg
				485					490					495
Leu	Ser	Asp	Leu	Glu	Lys	Tyr	Arg	Glu	Ala	Gly	Ser	Arg	Thr	Asn Thr
			500					505					510	
Thr	Trp	Leu	Gly	Glu	Glu	Ala	Ala	Arg	Asn	Thr	Arg	Ile	Leu	Glu Arg
		515					520					525		
Gln	Pro	Arg	Val	Ile	Ser	His	Glu	Gln	Gln	Met	Arg	Phe	Ser	
	530					535					540			

<210> 8460

<211> 588

<212> PRT

<213> Enterobacter cloacae

<400> 8460

His	Ser	Arg	Arg	Ser	Trp	Leu	Gly	Leu	Gly	Arg	Glu	Lys	Gly	Tyr	Thr
1				5					10					15	
Ser	Arg	Leu	Lys	Phe	Ile	Leu	Ile	Thr	Ile	Lys	Glu	Ala	Lys	Ser	Asn
			20					25					30		
Val	Ala	Gln	Phe	Val	Tyr	Thr	Met	His	Arg	Val	Gly	Lys	Val	Val	Pro
		35					40					45			
Pro	Lys	Arg	His	Ile	Leu	Lys	Asn	Ile	Ser	Leu	Ser	Phe	Phe	Pro	Gly
	50					55				60					
Ala	Lys	Ile	Gly	Val	Leu	Gly	Leu	Asn	Gly	Ala	Gly	Lys	Ser	Thr	Leu
65					70				75					80	
Leu	Arg	Ile	Met	Ala	Gly	Ile	Asp	Thr	Asp	Ile	Glu	Gly	Glu	Ala	Arg
			85					90					95		
Pro	Gln	Pro	Gly	Ile	Lys	Ile	Gly	Tyr	Leu	Pro	Gln	Glu	Pro	Gln	Leu
			100					105					110		
Asn	Pro	Glu	His	Thr	Val	Arg	Glu	Ser	Val	Glu	Glu	Ala	Val	Ser	Glu
		115					120					125			
Val	Val	Asn	Ala	Leu	Lys	Gly	Leu	Asp	Glu	Val	Tyr	Ala	Lys	Tyr	Ala
	130					135					140				
Glu	Pro	Asp	Ala	Asp	Phe	Asp	Lys	Leu	Ala	Ala	Gln	Gln	Gly	Lys	Tyr
145				150					155					160	
Glu	Glu	Ile	Ile	Gln	Ala	His	Asp	Gly	His	Asn	Leu	Asn	Val	Gln	Leu
			165					170						175	
Glu	Arg	Ala	Ala	Asp	Ala	Leu	Arg	Leu	Pro	Asp	Trp	Asp	Ala	Lys	Ile
			180				185					190			
Ala	Asn	Leu	Ser	Gly	Gly	Glu	Arg	Arg	Arg	Val	Ala	Leu	Cys	Arg	Leu
		195					200				205				
Leu	Leu	Glu	Lys	Pro	Asp	Met	Leu	Leu	Leu	Asp	Glu	Pro	Thr	Asn	His
	210				215					220					
Leu	Asp	Ala	Glu	Ser	Val	Ala	Trp	Leu	Glu	Arg	Phe	Leu	His	Asp	Phe
225				230					235					240	
Glu	Gly	Thr	Val	Val	Ala	Ile	Thr	His	Asp	Arg	Tyr	Phe	Leu	Asp	Asn
			245					250					255		
Val	Ala	Gly	Trp	Ile	Leu	Glu	Leu	Asp	Arg	Gly	Glu	Gly	Ile	Pro	Trp
		260					265					270			
Glu	Gly	Asn	Tyr	Ser	Ser	Trp	Leu	Glu	Gln	Lys	Asp	Gln	Arg	Leu	Ala
		275				280					285				
Gln	Glu	Ala	Ser	Gln	Glu	Ala	Ala	Arg	Arg	Lys	Ser	Ile	Glu	Lys	Glu
	290				295					300					
Leu	Glu	Trp	Val	Arg	Gln	Gly	Ala	Lys	Gly	Arg	Gln	Ser	Lys	Gly	Lys
305					310				315					320	
Ala	Arg	Leu	Ala	Arg	Phe	Glu	Glu	Leu	Asn	Asn	Thr	Glu	Tyr	Gln	Lys
			325					330					335		
Arg	Asn	Glu	Thr	Asn	Glu	Leu	Phe	Ile	Pro	Pro	Gly	Ala	Arg	Leu	Gly
		340					345				350				
Asp	Lys	Val	Val	Glu	Val	Thr	Asn	Leu	Arg	Lys	Ser	Tyr	Gly	Asp	Arg

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<210> 8461
<211> 221
<212> PRT
<213> Enterobacter cloacae
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Ile	Leu	Ser	Arg	Trp	Asn	Met	Ala	Arg	Ala	Lys	Leu	Lys	Phe	Arg	Leu
1				5					10					15	
His	Arg	Ala	Val	Ile	Val	Leu	Ile	Cys	Leu	Ala	Leu	Leu	Val	Ala	Leu
			20					25					30		
Met	Gln	Gly	Ala	Ser	Trp	Phe	Ser	Gln	Asn	His	Gln	Arg	Gln	Arg	Asn
		35					40					45			
Pro	Gln	Phe	Glu	Glu	Leu	Gly	Arg	Thr	Leu	Ala	Arg	Gln	Val	Thr	Leu
	50					55					60				
Asn	Val	Ala	Pro	Ser	Met	Arg	Thr	Glu	Thr	Pro	Asp	Asp	Lys	Arg	Ile
65				70						75				80	
Ala	Leu	Val	Leu	Arg	Gln	Leu	Thr	Glu	Asn	Ser	Arg	Ile	Leu	Asp	Ala
			85					90						95	
Gly	Val	Tyr	Asp	Glu	Gln	Gly	Asp	Leu	Ile	Ala	Arg	Ala	Gly	Glu	His
			100				105					110			
Val	Asp	Val	Arg	Asp	Arg	Leu	Ala	Leu	Asp	Gly	Lys	Lys	Ala	Gly	Gly
		115				120					125				
Tyr	Phe	Asn	Gln	Gln	Ile	Val	Glu	Pro	Ile	Gln	Gly	Lys	Asn	Gly	Pro
	130				135						140				
Leu	Gly	Tyr	Leu	Arg	Leu	Thr	Leu	Asp	Thr	His	Thr	Leu	Pro	Thr	Glu
145				150						155				160	
Ala	Lys	Gln	Val	Asp	Asn	Thr	Thr	Asn	Ile	Leu	Arg	Leu	Met	Leu	Leu
			165					170					175		
Leu	Ser	Leu	Ala	Ile	Gly	Val	Val	Leu	Ala	Arg	Thr	Leu	Leu	Gln	Gly
		180				185					190				
Lys	Arg	Thr	Arg	Trp	Gln	Gln	Ser	Pro	Phe	Leu	Leu	Thr	Ala	Ser	Lys

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<210> 8462
<211> 350
<212> PRT
<213> Enterobacter cloacae
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	Ser	Arg	Arg	Met	Ile	Arg	Lys	Arg	Asn	Ser	Ala	Met	Ser	Thr	Leu	Arg
1	Leu	Leu	Ile	Ser	Asp	Ser	Tyr	Asp	Pro	Trp	Phe	Asn	Leu	Ala	Val	Glu
			20					25						30		
Glu	Cys	Ile	Phe	Arg	Gln	Met	Pro	Ala	Thr	Gln	Arg	Val	Leu	Phe	Leu	
		35					40					45				
Trp	Arg	Asn	Ala	Asp	Thr	Val	Val	Ile	Gly	Arg	Ala	Gln	Asn	Pro	Trp	
	50					55					60					
Lys	Glu	Cys	Asn	Thr	Arg	Arg	Met	Glu	Glu	Asp	Asn	Val	Arg	Leu	Ala	
65				70						75					80	
Arg	Arg	Ser	Ser	Gly	Gly	Gly	Ala	Val	Phe	His	Asp	Leu	Gly	Asn	Thr	
				85					90					95		
Cys	Phe	Thr	Phe	Met	Ala	Gly	Lys	Pro	Glu	Tyr	Asp	Lys	Thr	Ile	Ser	
			100					105					110			
Thr	Ser	Ile	Val	Leu	Asn	Ala	Leu	Asn	Ser	Leu	Gly	Val	Thr	Ala	Glu	
		115					120					125				
Ala	Ser	Gly	Arg	Asn	Asp	Leu	Val	Val	Lys	Thr	Pro	Asp	Gly	Asp	Arg	
		130				135					140					
Lys	Val	Ser	Gly	Ser	Ala	Tyr	Arg	Glu	Thr	Met	Asp	Arg	Gly	Phe	His	
145				150						155				160		
His	Gly	Thr	Leu	Leu	Leu	Asn	Ala	Asp	Leu	Ser	Arg	Leu	Ala	Asn	Tyr	
				165					170					175		
Leu	Asn	Pro	Asp	Lys	Lys	Lys	Leu	Gln	Ala	Lys	Gly	Ile	Thr	Ser	Val	
			180					185					190			
Arg	Gly	Arg	Val	Ala	Asn	Leu	Val	Glu	Leu	Leu	Pro	Gly	Ile	Thr	His	
		195				200						205				
Glu	Gln	Ile	Cys	Asp	Ala	Ile	Arg	Glu	Ala	Phe	Phe	Glu	His	Tyr	Gly	
		210				215					220					
Glu	Arg	Val	Glu	Ala	Glu	Val	Ile	Ser	Pro	Asp	Lys	Thr	Pro	Asp	Leu	
225				230						235				240		
Pro	Asn	Phe	Ala	Glu	Thr	Phe	Ala	Arg	Gln	Ser	Ser	Trp	Glu	Trp	Asn	
				245					250					255		
Phe	Gly	Gln	Ala	Pro	Ala	Phe	Ser	His	Leu	Leu	Asp	Glu	Arg	Phe	Thr	
		260						265					270			
Trp	Gly	Gly	Val	Glu	Leu	His	Phe	Asp	Val	Glu	Lys	Gly	His	Ile	Thr	
		275					280					285				
Arg	Thr	Gln	Val	Phe	Thr	Asp	Ser	Leu	Asn	Pro	Ala	Pro	Leu	Glu	Ala	
		290				295					300					
Leu	Ala	Ala	Arg	Leu	Gln	Gly	Cys	Leu	Tyr	His	Ala	Asp	Ser	Leu	Gln	
305					310					315					320	
Gln	Ala	Cys	Glu	Ala	Leu	Trp	Val	Asp	Phe	Pro	Asp	His	Glu	Arg	Glu	
				325						330				335		
Leu	Arg	Asp	Leu	Ser	Gln	Trp	Ile	Ala	Gly	Ala						

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<210> 8463
<211> 232
<212> PRT
<213> Enterobacter cloacae
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<400> 8463

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Gly Leu Thr Met Lys Lys Ile Ile Ile Ala Thr Ala Val Ala Met Thr
1      5      10      15
Leu Ser Ala Thr Ala His Ala Asp Ser Thr Ala Val Leu Lys Leu Lys
20      25      30
Gly Val Leu Thr Asn Asn Ala Cys Thr Pro Thr Leu Ser Asp Gly Ala
35      40      45
Val Val Asp Phe Gly Thr Lys Tyr Ile Ser Ser Leu Ser Ala Thr Ala
50      55      60
Asp Asn Gln Leu Gly Tyr Lys Asp Ile Ser Leu Thr Ile Asn Cys Ser
65      70      75      80
Ala Ala Thr Lys Val Ala Trp Ser Ile Thr Asp Asp His Ala Asp Ser
85      90      95
Met Lys Lys Met Thr Ile Asp Asn Ala Thr Phe Ala Gly Asp Gln Ala
100     105     110
Trp Ser Ser Thr Asn Gln Tyr Gly Val Gly Lys Thr Ala Gly Gly Val
115     120     125
Asn Ile Gly Ala Tyr Ser Val Gly Met Asn Ser Asn Val Thr Val Asp
130     135     140
Gly Asn Val Lys Ala Leu Gly Tyr Ser Ala Ile Ala Asp Asp Pro Met
145     150     155     160
Trp Leu Leu Ala Asn Thr Gly Ser Gln Leu Val Thr His Ser Asp Gly
165     170     175
Ser Ile Gln Tyr Ser Ala Leu Asn Ser Ser Asp Arg Thr Leu Val Pro
180     185     190
Phe Met Asn Ala Val Phe Pro Leu Arg Val Ala Leu Ala Val Gln Lys
195     200     205
Thr Asp Thr Leu Ala Ile Thr Asp Asp Thr Pro Ile Asp Gly Gln Ala
210     215     220
Thr Ile Thr Leu His Tyr Leu
225     230

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<210> 8464

<211> 233

<212> PRT

<213> Enterobacter cloacae

<400> 8464

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Gly Thr Thr Met Lys Lys Ile Leu Val Ala Thr Ala Val Ala Leu Ala
1      5      10      15
Leu Ser Ala Thr Ala Ala Asn Ala Ala Ser Thr Ala Val Leu Lys Val
20      25      30
Thr Gly Leu Leu Ser Val Ala Ala Cys Thr Pro Gln Leu Ser Gly Gly
35      40      45
Gly Glu Val Asp Tyr Gly Leu Ile His Leu Ala Asp Leu Ser Ala Thr
50      55      60
Ser Val Asn Gln Leu Gly Gln Lys Asp Ile Ser Leu Thr Ile Thr Cys
65      70      75      80
Pro Val Ala Thr Lys Ala Gly Trp Thr Ile Ser Asp Asp Arg Ala Asp
85      90      95
Thr His Pro Gly Ala Ser Val Ile Thr Ile Asn Thr Ala Asp Ala Ala
100     105     110
Gly Gly Asn Val Ser Asp Thr Thr Gln Ser Tyr Gly Val Gly Lys Thr
115     120     125
Ala Gly Gly Val Lys Ile Gly Ala Tyr Ser Ile Phe Ala Asp Val Ala
130     135     140
Asn Val Thr Ala Asp Gly Val Lys Ser Asp Val Ile Ser Gly Thr Val
145     150     155     160
Asp Ser Pro Ser Trp Gln Lys Thr Ala Thr Gly Ile Ile Lys Asn Ala
165     170     175
Asn Met Glu Met Met Thr Val Ala Ala Ser Gly Thr Thr Ala Pro Leu
180     185     190

```

Pro Phe Thr Thr Ala Val Phe Pro Leu Lys Thr Ser Leu Ala Ile Gln
 195 200 205
 Asn Thr Ala Ala Leu Ala Ile Thr Asp Asp Thr Asn Leu Asp Gly Gln
 210 215 220
 Ala Thr Ile Thr Val Lys Tyr Leu
 225 230

<210> 8465

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 8465

Val Met Asn Ser Arg Cys Ala Leu Val Ser Gln Val Ile Pro Phe Ser
 1 5 10 15
 Cys Val Asp Gly Pro Gly Ser Arg Leu Ala Leu Phe Leu Gln Gly Cys
 20 25 30
 Asn Leu Arg Cys Lys Thr Cys His Asn Pro Trp Thr Ile Gly Arg Cys
 35 40 45
 Asn Asp Cys Gly Asp Cys Val Pro His Cys Pro His Asp Ala Leu Thr
 50 55 60
 Ile Gln Ala Gly Arg Val Trp Trp Gln Glu Ser His Cys Gln Gln Cys
 65 70 75 80
 Asp Thr Cys Leu His Leu Cys Gln Gln Gln Ala Thr Pro Met Ala Gln
 85 90 95
 Arg Tyr Ser Val Glu Glu Ile Leu Ser Arg Val Leu Thr Ser Ala Pro
 100 105 110
 Phe Ile Glu Gly Val Thr Val Ser Gly Gly Glu Ala Thr Thr Gln Leu
 115 120 125
 Pro Phe Leu Val Ala Leu Phe Thr Ala Ile Lys Ala Asp Pro Ser Leu
 130 135 140
 Arg His Leu Thr Cys Leu Val Asp Ser Asn Gly Leu Leu Ser Glu Thr
 145 150 155 160
 Gly Trp Gln Lys Leu Phe Pro Val Phe Asp Gly Ala Met Val Asp Leu
 165 170 175
 Lys Ala Trp Gly Asn Glu His His Arg Phe Leu Thr Gly Arg Glu Asn
 180 185 190
 Thr Leu Ile Lys Gln Ser Ile Arg Trp Leu Ala Asp Arg His Arg Leu
 195 200 205
 Thr Glu Leu Arg Leu Leu Val Ile Pro Asp Arg Cys Asp Tyr Leu Gln
 210 215 220
 His Leu Pro Ser Leu Thr Ala Phe Ile His Thr Leu Glu Asn Val Pro
 225 230 235 240
 Val Arg Ile Asn Ala Phe His Ala His Gly Val Tyr Gly Glu Ala Ala
 245 250 255
 Arg Trp Arg Ser Ala Thr Pro Glu Asp Ile Glu Pro Leu Ala Gln Ala
 260 265 270
 Leu Glu Arg Gln Gln Ile Thr Val Ile Arg Pro Ala Leu Tyr Leu
 275 280 285

<210> 8466

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 8466

Arg Arg Ile Asp Leu Asn Glu Leu Leu Val Ala His Pro Ser Ser Thr
 1 5 10 15
 Tyr Phe Val Lys Ala Ala Gly Asp Ser Met Ile Glu Gly Gly Ile Asn
 20 25 30
 Asn Gly Asp Leu Leu Val Val Asp Ser Ser Arg Lys Pro Glu His Gly

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<210> 8467
<211> 190
<212> PRT
<213> Enterobacter cloacae
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<210> 8468
<211> 817
<212> PRT
<213> Enterobacter cloacae
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<400> 8468															
Val	Phe	Met	Lys	Ile	Lys	Ala	Pro	Glu	Ala	Leu	Met	Ala	Ala	Glu	Val
1				5					10					15	
Thr	Arg	Arg	Gly	Leu	Met	Lys	Thr	Thr	Ala	Ile	Gly	Gly	Leu	Ala	Val
			20					25					30		
Ala	Ser	Ser	Ala	Phe	Thr	Leu	Pro	Phe	Thr	Arg	Leu	Ala	Ser	Ala	Ala
			35				40					45			
Glu	Ala	Leu	Ser	Pro	Ala	Ser	Ala	Pro	Glu	Lys	Val	Val	Trp	Ser	Ala
			50			55					60				
Cys	Thr	Val	Asn	Cys	Gly	Ser	Arg	Cys	Pro	Leu	Arg	Met	His	Val	Val
65					70					75				80	
Asp	Gly	Glu	Ile	Lys	Tyr	Val	Glu	Thr	Asp	Asn	Thr	Gly	Asp	Asp	Asn
				85					90				95		
Tyr	Glu	Gly	Leu	His	Gln	Val	Arg	Ala	Cys	Leu	Arg	Gly	Arg	Ser	Met
			100					105					110		

Arg	Arg	Arg	Val	Tyr	Asn	Pro	Asp	Arg	Leu	Lys	Tyr	Pro	Met	Lys	Arg
		115					120					125			
Val	Gly	Lys	Arg	Gly	Glu	Gly	Lys	Phe	Glu	Arg	Ile	Ser	Trp	Asp	Glu
	130					135					140				
Ala	Tyr	Asp	Ile	Ile	Ala	Thr	Asn	Met	Gln	Arg	Leu	Ile	Lys	Glu	Tyr
145					150					155					160
Gly	Asn	Glu	Ser	Ile	Tyr	Leu	Asn	Tyr	Gly	Thr	Gly	Thr	Leu	Gly	Gly
				165					170					175	
Thr	Met	Thr	Arg	Ser	Trp	Pro	Pro	Gly	Lys	Thr	Leu	Val	Ala	Arg	Leu
			180					185					190		
Met	Asn	Cys	Cys	Gly	Gly	Tyr	Leu	Asn	His	Tyr	Gly	Asp	Tyr	Ser	Ser
		195					200					205			
Ala	Gln	Ile	Ala	Ala	Gly	Leu	Asn	Tyr	Thr	Tyr	Gly	Gly	Trp	Ala	Asp
	210					215					220				
Gly	Asn	Ser	Pro	Ser	Asp	Ile	Glu	Asn	Ser	Lys	Leu	Val	Val	Leu	Phe
225					230					235					240
Gly	Asn	Asn	Pro	Gly	Glu	Thr	Arg	Met	Ser	Gly	Gly	Gly	Val	Thr	Tyr
				245				250						255	
Tyr	Leu	Glu	Gln	Ala	Arg	Ala	Lys	Ser	Asn	Ala	Arg	Met	Ile	Ile	Val
			260				265						270		
Asp	Pro	Arg	Tyr	Thr	Asp	Thr	Gly	Ala	Gly	Arg	Glu	Asp	Glu	Trp	Ile
		275					280					285			
Pro	Ile	Arg	Pro	Gly	Thr	Asp	Ala	Ala	Leu	Val	Asn	Ala	Leu	Ala	Tyr
	290					295					300				
Val	Met	Ile	Thr	Glu	Asn	Leu	Val	Asp	Gln	Pro	Phe	Leu	Asp	Lys	Tyr
305					310					315					320
Cys	Val	Gly	Tyr	Asp	Glu	Lys	Thr	Leu	Pro	Ala	Ser	Ala	Pro	Ala	Asn
				325					330					335	
Gly	His	Tyr	Lys	Ala	Tyr	Ile	Leu	Gly	Gln	Gly	Ser	Asp	Gly	Val	Ala
			340					345					350		
Lys	Thr	Pro	Glu	Trp	Ala	Ser	Thr	Ile	Thr	Gly	Ile	Pro	Val	Glu	Arg
		355					360						365		
Ile	Val	Gln	Leu	Ala	Arg	Glu	Ile	Gly	Ser	Thr	Lys	Pro	Ala	Tyr	Ile
	370					375					380				
Ser	Gln	Gly	Trp	Gly	Pro	Gln	Arg	His	Ser	Asn	Gly	Glu	Ile	Ala	Thr
385					390					395					400
Arg	Ala	Ile	Ser	Met	Leu	Ser	Ile	Leu	Thr	Gly	Asn	Val	Gly	Ile	His
				405					410					415	
Gly	Gly	Asn	Ser	Gly	Ala	Arg	Glu	Gly	Ser	Tyr	Glu	Val	Pro	Phe	Glu
			420					425					430		
Arg	Met	Pro	Thr	Leu	Asp	Asn	Pro	Val	Gln	Thr	Ser	Ile	Ser	Met	Phe
		435					440						445		
Met	Trp	Thr	Asp	Ala	Ile	Glu	Arg	Gly	Pro	Glu	Met	Thr	Ala	Leu	Arg
		450				455					460				
Asp	Gly	Val	Arg	Gly	Lys	Asp	Lys	Leu	Asp	Val	Pro	Ile	Lys	Met	Ile
465					470					475					480
Trp	Asn	Tyr	Ala	Gly	Asn	Cys	Leu	Ile	Asn	Gln	His	Ser	Glu	Ile	Asn
				485					490					495	
Arg	Thr	His	Glu	Ile	Leu	Gln	Asp	Asp	Lys	Lys	Cys	Glu	Met	Ile	Val
			500					505					510		
Val	Ile	Asp	Cys	His	Met	Thr	Ser	Ser	Ala	Lys	Tyr	Ala	Asp	Ile	Leu
		515					520					525			
Leu	Pro	Asp	Cys	Thr	Ala	Ser	Glu	Gln	Met	Asp	Phe	Ala	Leu	Asp	Ala
		530				535					540				
Ser	Cys	Gly	Asn	Met	Ser	Tyr	Val	Ile	Phe	Thr	Asp	Gln	Ala	Ile	Lys
545					550					555					560
Pro	Arg	Phe	Glu	Cys	Lys	Thr	Ile	Tyr	Glu	Met	Thr	Ser	Glu	Leu	Ala
				565					570					575	
Lys	Arg	Leu	Gly	Val	Glu	Gln	Gln	Phe	Thr	Glu	Gly	Arg	Thr	Gln	Glu
			580					585					590		
Gly	Trp	Met	Arg	His	Leu	His	Glu	Leu	Ser	Arg	Lys	Ala	Ile	Pro	Asp

	595		600		605														
Leu	Pro	Asp	Phe	Asp	Thr	Phe	Arg	Lys	Gln	Gly	Met	Tyr	Lys	Gln	Arg				
	610					615					620								
Asp	Pro	Glu	Gly	His	His	Val	Ala	Tyr	Lys	Ala	Phe	Arg	Asp	Asp	Pro				
	625					630					635				640				
Gln	Ala	Asn	Pro	Leu	Thr	Thr	Pro	Ser	Gly	Lys	Ile	Glu	Ile	Tyr	Ser				
				645						650				655					
Glu	Glu	Leu	Ala	Lys	Ile	Ala	Ala	Thr	Trp	Glu	Leu	Pro	Glu	Gly	Asp				
			660					665					670						
Val	Ile	Asp	Pro	Leu	Pro	Ile	Tyr	Thr	Pro	Gly	Phe	Glu	Asn	Tyr	Asn				
	675						680					685							
Asp	Pro	Leu	Thr	Glu	Lys	Phe	Pro	Leu	Gln	Leu	Thr	Gly	Phe	His	Tyr				
	690					695					700								
Lys	Ala	Arg	Val	His	Ser	Thr	Tyr	Gly	Asn	Val	Asp	Val	Leu	Lys	Ala				
	705				710					715					720				
Ala	Cys	Arg	Gln	Glu	Met	Trp	Ile	Asn	Pro	Met	Asp	Ala	Lys	Ala	Arg				
			725					730						735					
Gly	Ile	Ser	Asn	Gly	Asp	Arg	Val	Arg	Ile	Phe	Asn	Gly	Arg	Gly	Glu				
			740					745					750						
Val	His	Ile	Glu	Ala	Lys	Val	Thr	Pro	Arg	Met	Met	Pro	Gly	Val	Val				
	755						760					765							
Ala	Leu	Gly	Glu	Gly	Ala	Trp	Tyr	Asn	Pro	Asp	Ala	Asn	Arg	Ile	Asp				
	770					775					780								
Gln	Ala	Gly	Cys	Ile	Asn	Val	Leu	Thr	Thr	Gln	Arg	Pro	Ser	Pro	Leu				
	785				790					795					800				
Ala	Lys	Gly	Asn	Pro	Ser	His	Thr	Asn	Leu	Val	Gln	Val	Glu	Lys	Ala				
				805					810					815					

<210> 8469

<211> 384

<212> PRT

<213> Enterobacter cloacae

<400> 8469

Ser	Met	Thr	Thr	Tyr	Thr	Arg	Pro	Val	Leu	Leu	Leu	Leu	Cys	Gly	Leu				
1				5					10					15					
Leu	Leu	Leu	Thr	Leu	Ala	Ile	Ala	Val	Leu	Asn	Thr	Leu	Val	Pro	Leu				
			20					25					30						
Trp	Leu	Ala	His	Glu	Asn	Leu	Pro	Thr	Trp	Gln	Val	Gly	Met	Val	Ser				
		35					40					45							
Ser	Ser	Phe	Phe	Thr	Gly	Asn	Leu	Leu	Gly	Thr	Leu	Leu	Thr	Gly	Ser				
	50				55					60									
Leu	Ile	Lys	Arg	Phe	Gly	Phe	Asn	Arg	Ser	Tyr	Tyr	Leu	Ala	Ser	Leu				
	65				70					75				80					
Ile	Phe	Ala	Val	Gly	Cys	Ala	Gly	Leu	Gly	Leu	Met	Val	Gly	Phe	Trp				
			85						90					95					
Ser	Trp	Met	Val	Trp	Arg	Phe	Ile	Ala	Gly	Val	Gly	Cys	Ala	Met	Ile				
			100					105					110						
Trp	Val	Val	Val	Glu	Ser	Ala	Leu	Met	Cys	Ser	Gly	Thr	Ser	Arg	Asn				
	115						120					125							
Arg	Gly	Arg	Leu	Leu	Ala	Ala	Tyr	Met	Met	Val	Tyr	Tyr	Val	Gly	Thr				
	130					135					140								
Val	Leu	Gly	Gln	Leu	Met	Val	Ser	Lys	Leu	Pro	Thr	Asp	Leu	Met	Ser				
	145				150					155					160				
Val	Leu	Pro	Trp	Val	Thr	Gly	Met	Val	Leu	Ala	Ala	Ile	Leu	Pro	Leu				
			165						170					175					
Leu	Phe	Thr	Arg	Ile	Val	Asn	Gln	Asn	Ser	Glu	His	Gln	Glu	Ala	Thr				
		180						185					190						
His	Val	Trp	Pro	Met	Leu	Arg	Leu	Arg	Gln	Ala	Arg	Leu	Gly	Val	Asn				

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<210> 8470
<211> 256
<212> PRT
<213> Enterobacter cloacae
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<400> 8470															
Arg	Val	Leu	Ser	Pro	Ala	Lys	Ile	Asn	Gly	Trp	Ala	Met	Leu	Ile	Ser
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Ser	Asn	Leu	Leu	Leu	Arg	His	Arg	Lys	Met	Lys	Ala	Phe	Asp	Leu	Gln
			20					25					30		
Arg	Met	Ala	Phe	Asp	Lys	Val	Pro	Glu	Phe	Leu	Gly	Glu	Val	Ala	
		35					40				45				
Leu	Arg	Ser	Leu	Tyr	Thr	Phe	Val	Leu	Val	Phe	Leu	Phe	Leu	Lys	Ile
	50					55					60				
Thr	Gly	Arg	Arg	Gly	Val	Arg	Gln	Met	Ser	Leu	Phe	Glu	Val	Leu	Ile
65					70					75					80
Ile	Leu	Thr	Leu	Gly	Ser	Ala	Ala	Gly	Asp	Val	Ala	Phe	Tyr	Asp	Asp
				85					90					95	
Val	Pro	Met	Val	Pro	Val	Phe	Ile	Val	Phe	Val	Thr	Leu	Ala	Leu	Leu
			100					105						110	
Tyr	Arg	Leu	Val	Met	Trp	Leu	Met	Ser	Lys	Ser	Glu	Lys	Leu	Glu	Asp
		115					120					125			
Leu	Leu	Glu	Gly	Lys	Pro	Val	Val	Ile	Val	Glu	Asp	Gly	Gln	Leu	Ala
	130					135					140				
Trp	Glu	Asn	Val	Gln	Ser	Ala	Asn	Met	Thr	Glu	Phe	Glu	Phe	Phe	Met
145					150					155					160
Glu	Leu	Arg	Leu	Ser	Ser	Val	Glu	Gln	Leu	Gly	Gln	Val	Arg	Leu	Ala
				165					170					175	
Ile	Met	Glu	Thr	Asn	Gly	Gln	Ile	Ser	Val	Tyr	Tyr	Tyr	Pro	Asp	Asp
			180					185					190		
Glu	Val	Lys	Pro	Gly	Leu	Cys	Ile	Leu	Pro	Asp	Met	Leu	Ile	Glu	Arg
		195					200				205				
Tyr	Lys	Thr	Val	Pro	Glu	Ala	Gly	Glu	Tyr	Ala	Cys	Ile	Lys	Cys	Ser
	210					215					220				
His	Val	Val	Val	Met	Gln	Ala	Gly	Asp	His	Gln	Leu	Cys	Pro	Arg	Cys
225					230					235					240
Thr	Asn	Pro	Glu	Trp	Thr	Lys	Val	Ser	Arg	Ala	Lys	Arg	Ile	Thr	

245

250

255

<210> 8471

<211> 365

<212> PRT

<213> Enterobacter cloacae

<400> 8471

Gly	Glu	Met	Ala	Gln	Val	Phe	Asn	Phe	Ser	Ser	Gly	Pro	Ala	Met	Leu
1				5					10					15	
Pro	Thr	Asp	Val	Leu	Lys	Gln	Ala	Gln	Gln	Glu	Leu	Cys	Asp	Trp	Asn
			20					25					30		
Gly	Leu	Gly	Thr	Ser	Val	Met	Glu	Val	Ser	His	Arg	Gly	Lys	Ala	Phe
			35				40					45			
Ile	Lys	Val	Ala	Glu	Glu	Ala	Glu	Lys	Asp	Phe	Arg	Asp	Leu	Leu	Asn
	50					55					60				
Ile	Pro	Ser	Asn	Tyr	Lys	Val	Leu	Phe	Cys	His	Gly	Gly	Gly	Arg	Gly
65				70					75					80	
Gln	Phe	Ala	Gly	Ile	Pro	Leu	Asn	Leu	Leu	Gly	Asp	Lys	Thr	Thr	Ala
				85				90						95	
Asp	Tyr	Val	Asp	Ala	Gly	Tyr	Trp	Ala	Ala	Ser	Ala	Val	Lys	Glu	Ala
			100					105					110		
His	Lys	Tyr	Cys	Thr	Pro	Asn	Val	Ile	Asp	Ala	Lys	Val	Thr	Val	Asp
		115				120						125			
Gly	Leu	Arg	Ala	Val	Lys	Pro	Met	Ser	Glu	Trp	Gln	Leu	Ser	Asp	Asn
	130					135					140				
Ala	Ala	Tyr	Leu	His	Tyr	Cys	Pro	Asn	Glu	Thr	Ile	Asp	Gly	Ile	Ala
145				150					155					160	
Ile	His	Glu	Glu	Pro	Asp	Phe	Gly	Glu	Asn	Val	Ile	Val	Thr	Ala	Asp
				165				170						175	
Leu	Ser	Ser	Thr	Ile	Leu	Ser	Thr	Pro	Leu	Asp	Val	Ser	Arg	Tyr	Gly
			180					185					190		
Val	Ile	Tyr	Ala	Gly	Ala	Gln	Lys	Asn	Ile	Gly	Pro	Ala	Gly	Leu	Thr
			195				200					205			
Ile	Val	Ile	Val	Arg	Glu	Asp	Leu	Leu	Gly	Lys	Ala	His	Lys	Ser	Cys
	210					215					220				
Pro	Ser	Ile	Leu	Asp	Tyr	Thr	Val	Leu	Asn	Asp	Asn	Asp	Ser	Met	Phe
225				230					235					240	
Asn	Thr	Pro	Pro	Thr	Phe	Ala	Trp	Tyr	Leu	Ser	Gly	Leu	Val	Phe	Lys
				245					250					255	
Trp	Leu	Lys	Leu	Lys	Gly	Gly	Val	Ala	Gln	Met	Asp	Lys	Ile	Asn	Gln
			260				265						270		
Gln	Lys	Ala	Glu	Leu	Leu	Tyr	Gly	Val	Ile	Asp	Lys	Ser	Asp	Phe	Tyr
		275					280					285			
Arg	Asn	Asp	Val	Ala	Lys	Thr	Asn	Arg	Ser	Arg	Met	Asn	Val	Pro	Phe
	290					295					300				
Gln	Leu	Ala	Asp	Ser	Asn	Leu	Asp	Asn	Val	Phe	Leu	Glu	Glu	Ser	Phe
305					310					315					320
Ala	Ala	Gly	Leu	His	Ala	Leu	Lys	Gly	His	Arg	Val	Val	Gly	Gly	Met
				325					330					335	
Arg	Ala	Ser	Ile	Tyr	Asn	Ala	Met	Pro	Leu	Glu	Gly	Val	Lys	Ala	Leu
			340				345						350		
Thr	Asp	Phe	Met	Ile	Asp	Phe	Glu	Arg	Arg	His	Gly				
		355					360					365			

<210> 8472

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 8472

Tyr Ala Leu Arg Arg Ser Phe Val Ser Ser Val Asp Glu Asp Gln Lys
 1 5 10 15
 Asp Gly Arg Ile Ser Thr Val Glu Leu Ser Lys Arg Val Gly Leu Ser
 20 25 30
 Pro Thr Pro Cys Leu Glu Arg Val Arg Arg Leu Glu Arg Gln Gly Phe
 35 40 45
 Ile Gln Gly Tyr Thr Ala Leu Leu Asn Pro His Tyr Leu Asp Ala Ser
 50 55 60
 Leu Leu Val Phe Val Glu Ile Thr Leu Asn Arg Gly Ala Pro Asp Val
 65 70 75 80
 Phe Glu Gln Phe Asn Ala Ala Val Gln Lys Leu Glu Glu Ile Gln Glu
 85 90 95
 Cys His Leu Val Ser Gly Asp Phe Asp Tyr Leu Leu Lys Thr Arg Val
 100 105 110
 Pro Asp Met Ser Ala Tyr Arg Lys Leu Leu Gly Glu Thr Leu Leu Arg
 115 120 125
 Leu Pro Gly Val Asn Asp Thr Arg Thr Tyr Val Val Met Glu Glu Val
 130 135 140
 Lys Gln Ser Asn Arg Leu Val Ile Lys Thr Arg
 145 150 155

<210> 8473

<211> 1235

<212> PRT

<213> Enterobacter cloacae

<400> 8473

His Thr Gly Arg Thr Cys Leu Ile Pro Gly Glu Pro Phe Leu Ser Gln
 1 5 10 15
 Glu Tyr Thr Glu Asp Lys Glu Val Thr Leu Ser Lys Leu Ser Ser Gly
 20 25 30
 Arg Arg Leu Leu Glu Ala Leu Leu Ile Val Ile Ala Leu Phe Ala Val
 35 40 45
 Trp Leu Met Ala Ala Leu Leu Ser Phe Asn Pro Ser Asp Pro Ser Trp
 50 55 60
 Ser Gln Thr Ala Trp His Glu Pro Ile His Asn Leu Gly Gly Val Pro
 65 70 75 80
 Gly Ala Trp Leu Ala Asp Thr Leu Phe Phe Ile Phe Gly Val Met Ala
 85 90 95
 Tyr Thr Leu Pro Val Ile Ile Ile Gly Gly Cys Trp Phe Ala Trp Arg
 100 105 110
 His Arg Gln Asn Asp Asp Tyr Ile Asp Tyr Phe Ala Val Ser Leu Arg
 115 120 125
 Leu Ile Gly Ala Leu Ala Leu Ile Leu Thr Ser Cys Gly Leu Ala Ala
 130 135 140
 Ile Asn Ala Asp Asp Ile Trp Tyr Phe Ala Ser Gly Gly Val Ile Gly
 145 150 155 160
 Ser Leu Leu Ser Ser Ala Leu Gln Pro Met Leu His Ser Ser Gly Gly
 165 170 175
 Thr Leu Ala Leu Leu Cys Ile Trp Ala Ala Gly Leu Thr Leu Phe Thr
 180 185 190
 Gly Trp Ser Trp Val Ser Ile Ala Glu Lys Ile Gly Ser Phe Ile Leu
 195 200 205
 Thr Leu Leu Thr Phe Ala Ser Asn Arg Thr Arg Arg Asp Asp Thr Trp
 210 215 220
 Val Asp Glu Asp Glu Tyr Glu Asp Glu Tyr Glu Glu Asp Glu Ala
 225 230 235 240
 Pro Val Gln Arg Arg Glu Ser Arg Arg Ala Arg Ile Leu Arg Gly Ala
 245 250 255
 Leu Ala Arg Arg Gln Arg Val Ala Glu Lys Phe Ala Asn Pro Leu Gly
 260 265 270

Arg	Lys	Thr	Asp	Ala	Ala	Leu	Phe	Ser	Gly	Lys	Arg	Met	Asp	Glu	Asp
		275					280					285			
Glu	Gln	Ile	Glu	Tyr	Arg	Gly	Ala	Ala	Val	Asp	Pro	Asp	Asp	Val	Leu
	290					295					300				
Phe	Ser	Gly	His	Arg	Ala	Thr	Pro	Gly	Glu	Tyr	Asp	Glu	Tyr	Asp	Pro
305					310					315					320
Leu	Leu	His	Gly	His	Ser	Val	Thr	Glu	Pro	Val	Ala	Ala	Ala	Ala	Ala
			325					330						335	
Ala	Thr	Thr	Ala	Ala	Gln	Ala	His	Val	Ala	Pro	Val	Glu	Ala	Val	Met
			340					345					350		
Pro	Ser	Ser	Pro	Val	Pro	Ala	Pro	Glu	Ser	Ala	Ile	Gln	Gln	Pro	Gln
		355					360					365			
Val	Asp	Trp	Gln	Thr	Ala	Pro	Gly	Val	His	Thr	Pro	Glu	Pro	Thr	Ile
	370					375					380				
Ala	Pro	Glu	Pro	Glu	Ser	Tyr	Ile	Pro	Val	Gln	Gln	Glu	Gln	Cys	Gln
385					390					395					400
Gln	Ser	Tyr	Gln	Pro	Ser	Glu	Pro	Ala	Ser	Glu	Pro	Gln	Gln	Pro	Tyr
				405					410					415	
Gln	Ala	Tyr	Thr	Pro	Glu	Pro	Ala	Val	Pro	Glu	Gln	Pro	Tyr	Val	Ala
			420					425					430		
Pro	Val	Ser	Glu	Pro	Glu	Val	Val	Glu	Glu	Ala	Lys	Pro	Ser	Arg	Pro
		435					440					445			
Pro	Leu	Tyr	Tyr	Phe	Glu	Glu	Val	Glu	Glu	Arg	Arg	Ala	Arg	Glu	Arg
	450				455						460				
Glu	Gln	Leu	Ala	Ala	Trp	Tyr	Gln	Pro	Val	Pro	Glu	Pro	Val	Gln	Glu
465					470					475					480
Pro	Val	Val	Lys	Ala	Pro	Ser	Ala	Ser	Val	Ala	Pro	Val	Asp	Pro	Ala
				485					490					495	
Pro	Ala	Val	Ala	Ser	Gly	Ala	Glu	Thr	Val	Lys	Gln	Ala	Thr	Ala	Ala
			500					505					510		
Ala	Ala	Ala	Ser	Ala	Pro	Leu	Phe	Ser	Pro	Ala	Thr	Asp	Ser	Ala	Pro
		515					520					525			
Arg	Pro	Gln	Val	Lys	Glu	Gly	Ile	Gly	Pro	Gln	Leu	Pro	Arg	Pro	Asn
	530				535						540				
Arg	Val	Arg	Val	Pro	Thr	Arg	Arg	Glu	Leu	Ala	Ser	Tyr	Gly	Ile	Lys
545					550					555					560
Leu	Pro	Ser	Gln	Arg	Met	Ala	Glu	Glu	Lys	Ala	Arg	Gly	Ser	Asp	Tyr
				565					570					575	
Glu	Asp	Asp	Ala	Asp	Glu	Leu	His	Gln	Asp	Glu	Leu	Ala	Arg	Gln	Phe
			580					585					590		
Ala	Ala	Gln	Gln	Asn	Gln	Arg	Tyr	Gly	Asp	Glu	Tyr	Gln	His	Asp	Val
		595					600					605			
Pro	Ser	His	Gln	Glu	Asp	Asp	Asp	Ala	Ala	Glu	Ala	Glu	Leu	Ala	Arg
	610					615					620				
Gln	Phe	Ala	Ala	Thr	Gln	Gln	Gln	Arg	Tyr	Ser	Gly	Glu	Gln	Pro	Ser
625					630					635					640
Gly	Ala	Asn	Pro	Phe	Ser	Leu	Ser	Asp	Phe	Glu	Phe	Ser	Pro	Met	Lys
				645					650					655	
Asp	Leu	Val	Asp	Asp	Gly	Pro	Ser	Glu	Pro	Leu	Phe	Thr	Pro	Ser	Val
			660					665					670		
Met	Pro	Glu	Ala	Glu	Pro	Val	Arg	Gln	Ser	Pro	Pro	Pro	Gln	Val	Tyr
		675					680					685			
Ala	Gln	Pro	Gln	Gln	Pro	Ala	Pro	Gln	Ala	Tyr	Ala	Gln	Pro	Gln	Thr
	690					695					700				
Pro	Ala	Gln	Pro	Pro	Gln	Pro	Gln	Phe	Gln	Gln	Pro	Ala	Pro	Gln	Pro
705					710					715					720
Gln	Glu	Ser	Leu	Ile	His	Pro	Leu	Leu	Met	Arg	Asn	Gly	Asp	Ser	Arg
				725					730					735	
Pro	Leu	Gln	Arg	Pro	Ser	Thr	Pro	Leu	Pro	Ser	Leu	Asp	Leu	Leu	Thr
			740					745				750			
Pro	Pro	Pro	Ala	Glu	Val	Glu	Pro	Val	Asp	Thr	Phe	Ala	Leu	Glu	Gln

[illegible]

<210> 8474
 <211> 207
 <212> PRT
 <213> Enterobacter cloacae

<400> 8474
 Pro Met Thr Thr Gln Tyr Gly Phe Phe Ile Asp Ser Ser Arg Cys Thr
 1 5 10 15
 Gly Cys Lys Thr Cys Glu Leu Ala Cys Lys Asp Tyr Lys Asp Leu Thr
 20 25 30
 Pro Glu Val Ser Phe Arg Arg Ile Tyr Glu Tyr Ala Gly Gly Asp Trp
 35 40 45
 Gln Glu Asp Asn Gly Val Trp His Gln Asn Val Phe Ala Tyr Tyr Leu
 50 55 60
 Ser Ile Ala Cys Asn His Cys Glu Asp Pro Ala Cys Thr Lys Val Cys
 65 70 75 80
 Pro Ser Gly Ala Met His Lys Arg Asp Asp Gly Phe Val Val Val Asp
 85 90 95
 Glu Asp Val Cys Ile Gly Cys Arg Tyr Cys His Met Ala Cys Pro Tyr
 100 105 110
 Gly Ala Pro Gln Tyr Asn Ala Ala Lys Gly His Met Thr Lys Cys Asp
 115 120 125
 Gly Cys His Ser Arg Val Ala Asp Gly Lys Lys Pro Ile Cys Val Glu
 130 135 140
 Ser Cys Pro Leu Arg Ala Leu Asp Phe Gly Pro Ile Glu Glu Leu Arg
 145 150 155 160
 Lys Lys His Gly Gln Leu Ala Ala Val Ala Pro Leu Pro Ser Ala His
 165 170 175
 Phe Thr Lys Pro Ser Ile Val Ile Lys Pro Asn Ala Asn Ser Arg Pro
 180 185 190
 Thr Gly Asp Thr Thr Gly Tyr Leu Ala Asn Pro Lys Glu Val
 195 200 205

<210> 8475
 <211> 165
 <212> PRT
 <213> Enterobacter cloacae

<400> 8475
 Cys Gly Ile Ser Leu Arg Phe Leu Thr Leu Ile Leu Phe His Phe Phe
 1 5 10 15
 Tyr Thr Leu Leu Gln Ser Phe Arg Asn Leu His Ala Lys Val Thr Val
 20 25 30
 Ala His Val Gly Ala Tyr Asn Ala Arg Arg Ser Cys Lys Arg Tyr Ala
 35 40 45
 Leu Ile Lys Glu Lys Lys Met Thr Ala Ile Ala Pro Val Ile Thr Ile
 50 55 60
 Asp Gly Pro Ser Gly Ala Gly Lys Gly Thr Leu Cys Lys Ala Met Ala
 65 70 75 80
 Glu Ala Leu Gln Trp His Leu Leu Asp Ser Gly Ala Ile Tyr Arg Val
 85 90 95
 Leu Ala Leu Ala Ala Leu His His His Val Asp Val Ala Ser Glu Glu
 100 105 110
 Ala Leu Val Pro Leu Ala Ala His Leu Asp Val Arg Phe Val Ser Thr
 115 120 125
 Asp Gly Asn Leu Glu Val Ile Leu Glu Gly Glu Asp Val Ser Gly Glu
 130 135 140
 Ile Arg Thr Gln Glu Val Ala Asn Ala Ala Ser Gln Val Ala Ala Phe
 145 150 155 160
 Pro Thr Arg Ser

165

<210> 8476
 <211> 109
 <212> PRT
 <213> Enterobacter cloacae

<400> 8476

Ala	Val	Gln	Leu	Met	Gly	Leu	Lys	Gly	Thr	Gly	Gly	Ile	Met	Thr	Lys
1				5					10					15	
Ser	Glu	Leu	Ile	Glu	Arg	Leu	Ala	Ser	Gln	Gln	Pro	His	Ile	Pro	Ala
		20						25					30		
Lys	Ala	Val	Glu	Asp	Ala	Val	Lys	Glu	Met	Leu	Glu	His	Met	Ala	Thr
		35					40					45			
Thr	Leu	Ala	Gln	Gly	Glu	Arg	Ile	Glu	Ile	Arg	Gly	Phe	Gly	Ser	Phe
	50					55					60				
Ser	Leu	His	Tyr	Arg	Ala	Pro	Arg	Thr	Gly	Arg	Asn	Pro	Lys	Thr	Gly
65					70					75					80
Asp	Lys	Val	Glu	Leu	Glu	Gly	Lys	Tyr	Val	Pro	His	Phe	Lys	Pro	Gly
				85					90					95	
Lys	Glu	Leu	Arg	Asp	Arg	Ala	Asn	Ile	Tyr	Gly	Asn				
			100					105							

<210> 8477
 <211> 331
 <212> PRT
 <213> Enterobacter cloacae

<400> 8477

Asn	Ala	Val	Arg	Ser	Met	Ile	Ala	Arg	Ile	Trp	Ser	Gly	Glu	Ser	Pro
1				5					10					15	
Leu	Trp	Val	Leu	Leu	Leu	Pro	Leu	Ser	Trp	Leu	Tyr	Gly	Leu	Val	Ser
		20						25					30		
Gly	Ala	Ile	Arg	Leu	Leu	Tyr	Arg	Leu	Gly	Ile	Lys	Arg	Ala	Trp	Arg
		35					40					45			
Ala	Pro	Val	Pro	Val	Val	Val	Val	Gly	Asn	Leu	Thr	Ala	Gly	Gly	Asn
	50					55					60				
Gly	Lys	Thr	Pro	Val	Val	Ile	Trp	Leu	Val	Glu	Gln	Leu	Gln	Arg	Arg
65					70					75					80
Gly	Ile	Arg	Pro	Gly	Val	Val	Ser	Arg	Gly	Tyr	Gly	Gly	Lys	Ala	Ala
				85					90					95	
Gln	Tyr	Pro	Leu	Val	Leu	Ser	Pro	Ala	Thr	Thr	Thr	Ala	Glu	Ala	Gly
			100				105						110		
Asp	Glu	Pro	Val	Leu	Ile	Tyr	Gln	Arg	Thr	Gly	Ala	Pro	Val	Ala	Val
		115					120					125			
Ser	Pro	Val	Arg	Ser	Asp	Ala	Val	Lys	Ala	Leu	Leu	Ala	Glu	His	Asn
	130					135					140				
Val	Gln	Ile	Ile	Ile	Thr	Asp	Asp	Gly	Leu	Gln	His	Tyr	Ala	Leu	Ala
145					150					155					160
Arg	Asp	Lys	Glu	Ile	Val	Val	Ile	Asp	Gly	Val	Arg	Arg	Phe	Gly	Asn
			165					170						175	
Gly	Trp	Trp	Leu	Pro	Ala	Gly	Pro	Met	Arg	Glu	Arg	Ala	Ser	Arg	Leu
		180					185						190		
Lys	Thr	Val	Asp	Ala	Val	Ile	Val	Asn	Gly	Gly	Glu	Ala	Arg	Ala	Val
	195						200					205			
Glu	Ile	Pro	Met	Leu	Leu	Arg	Pro	Gly	Gln	Ala	Val	Asn	Met	Leu	Thr
	210					215					220				
Gly	Glu	Arg	Lys	Asp	Val	Ala	Gln	Leu	Glu	His	Leu	Val	Ala	Met	Ala
225				230						235					240
Gly	Ile	Gly	His	Pro	Pro	Arg	Phe	Phe	Ala	Thr	Leu	Glu	Gln	Cys	Gly
				245					250					255	

Ala	Arg	Leu	Glu	Lys	Arg	Val	Pro	Leu	Ala	Asp	His	Gln	Ala	Leu	Val
			260					265					270		
Ala	Glu	Glu	Val	Glu	Arg	Leu	Ala	Ala	Pro	Gly	Gln	Thr	Leu	Ile	Met
		275					280					285			
Thr	Glu	Lys	Asp	Ala	Val	Lys	Cys	Arg	Ala	Phe	Ala	Lys	Glu	Asn	Trp
	290					295					300				
Trp	Tyr	Leu	Pro	Val	Asp	Ala	Glu	Leu	Ser	Gly	Glu	Gln	Pro	Glu	His
305					310					315					320
Leu	Leu	Lys	Glu	Leu	Leu	Ala	Leu	Val	Gln						
				325					330						

<210> 8478

<211> 260

<212> PRT

<213> Enterobacter cloacae

<400> 8478

Ser	Pro	Phe	Thr	Gly	Gly	Arg	Arg	Asp	Gln	Thr	Met	Ser	Phe	Val	Val
1				5					10					15	
Ile	Ile	Pro	Ala	Arg	Tyr	Ala	Ser	Thr	Arg	Leu	Pro	Gly	Lys	Pro	Leu
		20						25					30		
Val	Asp	Ile	Asn	Gly	Lys	Pro	Met	Ile	Val	His	Val	Leu	Glu	Arg	Ala
		35					40					45			
Arg	Glu	Ser	Gly	Ala	Gly	Arg	Val	Ile	Val	Ala	Thr	Asp	His	Pro	Asp
	50					55					60				
Val	Ala	Arg	Ala	Val	Glu	Ala	Ala	Gly	Gly	Glu	Val	Cys	Met	Thr	Arg
65					70				75						80
Ala	Asp	His	Gln	Ser	Gly	Thr	Glu	Arg	Leu	Ala	Glu	Val	Val	Glu	Lys
			85					90						95	
Cys	Gly	Phe	Ser	Asp	Glu	Thr	Val	Ile	Val	Asn	Val	Gln	Gly	Asp	Glu
			100					105					110		
Pro	Met	Ile	Pro	Ala	Ala	Ile	Ile	Arg	Gln	Val	Ala	Asp	Asn	Leu	Ala
		115					120					125			
Arg	Arg	Gln	Val	Gly	Met	Ala	Thr	Leu	Ala	Val	Pro	Ile	His	His	Ala
		130				135					140				
Glu	Glu	Ala	Phe	Asn	Pro	Asn	Ala	Val	Lys	Val	Val	Met	Asp	Ala	Glu
145					150				155						160
Gly	Tyr	Ala	Leu	Tyr	Phe	Ser	Arg	Ala	Thr	Ile	Pro	Trp	Asp	Arg	Asp
			165						170					175	
Arg	Phe	Ala	Gln	Ser	Lys	Glu	Thr	Ile	Gly	Glu	Thr	Phe	Leu	Arg	His
			180					185					190		
Ile	Gly	Ile	Tyr	Gly	Tyr	Arg	Ala	Gly	Phe	Ile	Arg	Arg	Tyr	Val	Ala
		195					200					205			
Trp	Ala	Pro	Ser	Pro	Leu	Glu	His	Ile	Glu	Met	Leu	Glu	Gln	Leu	Arg
	210					215					220				
Val	Leu	Trp	Tyr	Gly	Glu	Lys	Ile	His	Val	Ala	Val	Ala	Gln	Glu	Ile
225					230					235					240
Pro	Gly	Thr	Gly	Val	Asp	Thr	Pro	Glu	Asp	Leu	Glu	Arg	Val	Arg	Val
			245						250					255	
Glu	Met	Arg													
															260

<210> 8479

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 8479

Gly	Ile	Thr	Met	Lys	Lys	Ile	Ala	Ile	Ala	Cys	Ala	Leu	Leu	Ser	Ser
1				5					10					15	
Phe	Val	Ala	Ser	Ser	Val	Trp	Ala	Asp	Ala	Ala	Ser	Asp	Leu	Lys	Ser

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<210> 8480
<211> 394
<212> PRT
<213> Enterobacter cloacae
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Val 1	Ser	Asn	Leu	Ser 5	Leu	Asp	Phe	Ser	Asp 10	Asn	Ala	Phe	Gln	Pro 15	Leu
Ala	Ala	Arg	Met 20	Arg	Pro	Glu	Asn 25	Leu	Ala	Gln	Tyr	Ile	Gly 30	Gln	Gln
His	Leu 35	Leu	Ala	Ala	Gly	Lys	Pro 40	Leu	Pro	Arg	Ala	Ile 45	Glu	Ala	Gly
His	Leu 50	His	Ser	Met	Ile	Leu 55	Trp	Gly	Pro	Pro	Gly 60	Thr	Gly	Lys	Thr
Thr 65	Leu	Ala	Glu	Val	Ile 70	Ala	Arg	Tyr	Ala	Asn 75	Ala	Asp	Val	Glu	Arg 80
Ile	Ser	Ala	Val	Thr 85	Ser	Gly	Val	Lys	Glu 90	Ile	Arg	Glu	Ala	Ile 95	Glu
Arg	Ala	Arg	Gln 100	Asn	Arg	Asn	Ala	Gly 105	Arg	Arg	Thr	Ile	Leu 110	Phe	Val
Asp	Glu	Val 115	His	Arg	Phe	Asn	Lys 120	Ser	Gln	Gln	Asp	Ala 125	Phe	Leu	Pro
His	Ile 130	Glu	Asp	Gly	Thr	Ile 135	Phe	Phe	Ile	Gly	Ala 140	Thr	Thr	Glu	Asn
Pro 145	Ser	Phe	Glu	Leu	Asn 150	Ser	Ala	Leu	Leu	Ser 155	Arg	Ala	Arg	Val	Tyr 160
Leu	Leu	Lys	Ser	Leu 165	Thr	Thr	Glu	Asp	Ile 170	Glu	Lys	Val	Leu	Thr 175	Gln
Ala	Met	Glu	Asp 180	Lys	Ala	Arg	Gly	Tyr 185	Gly	Gly	Gln	Asp	Ile 190	Val	Leu
Pro	Asp 195	Glu	Thr	Arg	Arg	Ala	Ile 200	Ala	Glu	Leu	Val	Asn 205	Gly	Asp	Ala
Arg	Arg 210	Ala	Met	Asn	Thr	Leu 215	Glu	Met	Met	Ala	Asp 220	Met	Ala	Glu	Val
Asp 225	Asp	Ala	Gly	Lys	Arg 230	Val	Leu	Lys	Gln	Glu	Leu	Leu	Thr	Glu	Ile 240
Ala	Gly	Glu	Arg	Ser	Ala	Arg	Phe	Asp	Asn	Lys	Gly	Asp	Arg	Phe	Tyr

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<210> 8481
<211> 438
<212> PRT
<213> Enterobacter cloacae
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Phe 1	Asp	Lys	His	Arg 5	Ile	Ser	Met	Leu	Asp 10	Pro	Asn	Leu	Leu	Arg 15	Asn
Glu	Pro	Asp	Ala 20	Val	Ala	Glu	Lys	Leu 25	Ala	Arg	Arg	Gly	Phe 30	Lys	Leu
Asp	Val	Asp 35	Lys	Leu	Arg	Ala	Leu 40	Glu	Glu	Arg	Arg	Lys 45	Val	Leu	Gln
Val	Gln 50	Thr	Glu	Asn	Leu	Gln 55	Ala	Glu	Arg	Asn 60	Ser	Arg	Ser	Lys	Ser
Ile 65	Gly	Gln	Ala	Lys 70	Ala	Arg	Gly	Glu	Asp 75	Ile	Glu	Pro	Leu	Arg	Leu 80
Glu	Val	Asn	Lys 85	Leu	Gly	Glu	Glu	Leu	Asp 90	Gln	Ala	Lys	Ala	Glu 95	Leu
Asp	Val	Leu 100	Gln	Ala	Glu	Ile	Arg	Asp 105	Ile	Ala	Leu	Ala	Ile 110	Pro	Asn
Ile	Pro	Asp 115	Asp	Ser	Val	Pro	Val 120	Gly	Lys	Asp	Glu	Asn 125	Asp	Asn	Val
Glu	Val 130	Lys	Arg	Trp	Gly	Thr 135	Pro	Arg	Glu	Phe 140	Asp	Phe	Glu	Val	Arg
Asp 145	His	Val	Thr	Leu 150	Gly	Glu	Met	His	Ala 155	Gly	Leu	Asp	Phe	Ala 160	Ala
Ala	Val	Lys	Leu 165	Thr	Gly	Ser	Arg	Phe 170	Val	Val	Met	Lys	Gly 175	Gln	Ile
Ala	His	Leu 180	His	Arg	Ala	Leu	Ala 185	Gln	Phe	Met	Leu	Asp 190	Leu	His	Thr
Glu	Gln 195	His	Gly	Tyr	Ser	Glu	Thr 200	Tyr	Val	Pro	Tyr	Leu 205	Val	Asn	His
Asp 210	Thr	Leu	Tyr	Gly	Thr	Gly 215	Gln	Leu	Pro	Lys	Phe 220	Ala	Gly	Asp	Leu
Phe 225	His	Thr	Arg	Pro 230	Leu	Asp	Glu	Glu	Ala 235	Asp	Ser	Ser	Asn	Tyr	Ala 240
Leu	Ile	Pro	Thr 245	Ala	Glu	Val	Pro	Leu 250	Thr	Asn	Leu	Val	Arg 255	Asp	Glu
Ile	Ile	Asp 260	Glu	Asp	Asp	Leu	Pro 265	Ile	Lys	Leu	Thr	Ala 270	His	Ser	Pro
Cys	Phe	Arg	Ser	Glu	Ala	Gly	Ser	Tyr	Gly	Arg	Asp	Thr	Arg	Gly	Leu

[illegible][illegible]

<400>	8482														
Leu	Asn	Leu	Thr	Pro	Thr	Ala	Val	Arg	Arg	Gly	Thr	Pro	Pro	Ala	Thr
1				5					10					15	
Trp	Gln	Thr	Arg	Arg	Arg	Cys	Glu	Met	Gly	Ser	Gly	Trp	His	Glu	Trp
			20					25					30		
Pro	Leu	Met	Ile	Phe	Thr	Val	Phe	Gly	Gln	Cys	Val	Ala	Gly	Gly	Phe
		35					40					45			
Ile	Val	Leu	Ala	Leu	Ala	Leu	Leu	Lys	Gly	Asn	Leu	Asn	Thr	Glu	Gln
	50					55					60				
Gln	Gln	Arg	Leu	Val	Leu	Ser	Met	Phe	Gly	Leu	Trp	Val	Leu	Met	Gly
65					70					75					80
Ile	Gly	Phe	Ile	Ala	Ser	Thr	Leu	His	Leu	Gly	Ser	Pro	Met	Arg	Ala
				85					90					95	
Phe	Asn	Ser	Leu	Asn	Arg	Val	Gly	Ala	Ser	Ser	Leu	Ser	Asn	Glu	Ile
			100					105					110		
Ala	Ser	Gly	Ala	Ile	Phe	Phe	Ala	Val	Gly	Gly	Leu	Gly	Trp	Leu	Leu
		115					120					125			
Ala	Ala	Val	Lys	Lys	Leu	Pro	Ser	Gly	Leu	Arg	Ala	Leu	Trp	Leu	Ile
	130					135					140				
Val	Thr	Met	Val	Leu	Gly	Val	Val	Phe	Val	Trp	Met	Met	Val	Arg	Val
145					150					155					160
Tyr	Asn	Thr	Ile	Asp	Thr	Val	Thr	Thr	Trp	Tyr	Ser	Val	Trp	Thr	Pro
				165					170					175	
Met	Ser	Phe	Phe	Leu	Thr	Met	Phe	Ile	Gly	Gly	Pro	Leu	Leu	Gly	Tyr
			180					185					190		
Leu	Leu	Leu	Arg	Val	Ala	Gly	Ile	Asn	Gly	Trp	Ala	Met	Arg	Leu	Leu
		195					200					205			
Pro	Ala	Val	Ser	Leu	Leu	Ala	Leu	Val	Ile	Ser	Thr	Val	Val	Ala	Leu
	210					215					220				
Met	Gln	Gly	Ala	Glu	Leu	Ala	Thr	Ile	His	Ser	Ser	Ile	Gln	Gln	Ala
225					230					235					240
Ser	Ala	Leu	Val	Pro	Asp	Tyr	Gly	Ser	Leu	Met	Ala	Trp	Arg	Val	Val
				245					250					255	
Leu	Leu	Thr	Ala	Ala	Leu	Val	Cys	Trp	Ile	Ala	Pro	Gln	Leu	Lys	Gly

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<210> 8483
<211> 432
<212> PRT
<213> Enterobacter cloacae
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<400> 8483															
Glu 1	Leu	Ser	Phe	Met 5	Glu	Ser	Leu	Thr	Leu 10	Gln	Pro	Ile	Ala	Arg 15	Val
Asp	Gly	Thr	Ile 20	Asn	Leu	Pro	Gly	Ser 25	Lys	Ser	Val	Ser	Asn 30	Arg	Ala
Leu	Leu	Leu	Ala 35	Ala	Leu	Ala	Asn 40	Gly	Thr	Thr	Val	Leu 45	Thr	Asn	Leu
Leu	Asp	Ser	Asp 50	Asp	Val	Arg	His 55	Met	Leu	Asn	Ala 60	Leu	Lys	Ala	Leu
Gly 65	Val	Gln	Tyr	Ala 70	Leu	Ser	Asp	Asp	Arg	Thr	Arg	Cys	Glu	Val 80	Thr
Gly	Asn	Gly	Gly 85	Ala	Leu	His	Ser	Ala 90	Glu	Ala	Leu	Glu	Leu 95	Phe	Leu
Gly	Asn	Ala	Gly 100	Thr	Ala	Met	Arg	Pro 105	Leu	Ala	Ala	Ala	Leu 110	Cys	Leu
Gly	Ser	Asn	Asp 115	Ile	Val	Leu	Thr 120	Gly	Glu	Pro	Arg	Met 125	Lys	Glu	Arg
Pro	Ile 130	Gly	His	Leu	Val	Asp 135	Ala	Leu	Arg	Gln	Gly 140	Gly	Ala	Gln	Ile
Asp 145	Tyr	Leu	Glu	Gln 150	Glu	Asn	Tyr	Pro	Pro	Leu 155	Arg	Leu	Arg	Gly 160	Gly
Phe	Thr	Gly	Gly 165	Asn	Val	Glu	Val	Asp 170	Gly	Ser	Val	Ser	Ser	Gln 175	Phe
Leu	Thr	Ala	Leu 180	Leu	Met	Thr	Ala 185	Pro	Leu	Ala	Pro	Gln	Asp 190	Thr	Val
Ile	Ser 195	Ile	Lys	Gly	Asp	Leu	Val 200	Ser	Lys	Pro	Tyr	Ile 205	Asp	Ile	Thr
Leu	His 210	Leu	Met	Asn	Thr	Phe 215	Gly	Val	Glu	Val	Glu 220	Asn	Gln	Ser	Tyr
Gln 225	Arg	Phe	Val	Val 230	Arg	Gly	Ala	Gln	Gln	Tyr 235	Gln	Ser	Pro	Gly 240	His
Tyr	Leu	Val	Glu	Gly 245	Asp	Ala	Ser	Ser	Ala 250	Ser	Tyr	Phe	Leu	Ala 255	Ala
Gly	Ala	Ile	Lys 260	Gly	Gly	Thr	Val 265	Lys	Val	Thr	Gly	Ile 270	Gly	Arg	Asn
Ser	Val 275	Gln	Gly	Asp	Ile	Arg	Phe 280	Ala	Asp	Val	Leu	Glu 285	Lys	Met	Gly
Ala	Val 290	Val	Thr	Trp	Gly	Asp 295	Phe	Ile	Ser	Cys 300	Thr	His	Gly	Glu	
Leu 305	Asn	Ala	Ile	Asp 310	Met	Asp	Met	Asn	His 315	Ile	Pro	Asp	Ala	Ala 320	Met
Thr	Ile	Ala	Thr 325	Ala	Ala	Leu	Phe	Ala 330	Lys	Gly	Thr	Thr	Thr 335	Leu	Arg
Asn	Ile	Tyr	Asn 340	Trp	Arg	Val	Lys 345	Glu	Thr	Asp	Arg	Leu	Phe 350	Ala	Met
Ala	Thr 355	Glu	Leu	Arg	Lys	Val	Gly 360	Ala	Glu	Val	Glu 365	Glu	Gly	Glu	Asp
Tyr	Ile	Arg	Val	Thr	Pro	Pro	Ala	Lys	Leu	Gln	Phe	Ala	Glu	Ile	Gly

370		375		380
Thr Tyr Asn Asp His Arg Met Ala Met Cys Phe Ser Leu Val Ala Leu				
385		390		395
Ser Asp Thr Pro Val Thr Ile Leu Asp Pro Lys Cys Thr Ala Lys Thr				
	405		410	415
Phe Pro Asp Tyr Phe Glu Gln Leu Thr Arg Ile Ser Thr Leu Ala				
	420		425	430

<210> 8484

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 8484

Ser Trp Lys Gly Lys Met Ser Ala Val Lys Ser Val Pro Arg Lys Trp				
1	5	10	15	
Pro Met Arg Pro Leu Arg Trp Arg Leu Ser Pro Arg Val Arg Glu Ala				
	20	25	30	
Leu Leu Arg Arg Gln Arg Gly Phe Arg Glu Ala Pro Gly Leu Ile Ala				
	35	40	45	
Asp Gly Arg Asp Met Gly Thr Val Val Phe Pro Asp Ala Pro Val Lys				
	50	55	60	
Ile Phe Leu Asp Ala Ser Ser Glu Glu Arg Ala His Arg Arg Met Leu				
	65	70	75	80
Gln Leu Gln Glu Lys Gly Phe Ser Val Asn Phe Asp Arg Leu Leu Ser				
	85	90	95	
Glu Ile Lys Glu Arg Asp Asp Arg Asp Arg Asn Arg Ala Val Ala Pro				
	100	105	110	
Leu Val Pro Ala Gln Asp Ala Leu Val Leu Asp Ser Thr Ser Leu Thr				
	115	120	125	
Ile Glu Gln Val Ile Glu Lys Ala Leu Gln Tyr Ala Arg Gln Lys Leu				
	130	135	140	
Ala Leu Ala				
145				

<210> 8485

<211> 561

<212> PRT

<213> Enterobacter cloacae

<400> 8485

Arg Leu Asn Met Thr Glu Ser Phe Ala Gln Leu Phe Glu Glu Ser Leu				
1	5	10	15	
Lys Glu Ile Glu Thr Arg Pro Gly Ser Ile Val Arg Gly Val Val Val				
	20	25	30	
Ala Ile Asp Lys Asp Val Val Leu Val Asp Ala Gly Leu Lys Ser Glu				
	35	40	45	
Ser Ala Ile Pro Ala Glu Gln Phe Lys Asn Ala Gln Gly Glu Leu Glu				
	50	55	60	
Ile Gln Val Gly Asp Glu Val Asp Val Ala Leu Asp Ala Val Glu Asp				
	65	70	75	80
Gly Phe Gly Glu Thr Leu Leu Ser Arg Glu Lys Ala Lys Arg His Glu				
	85	90	95	
Ala Trp Ile Thr Leu Glu Lys Ala Tyr Glu Glu Ala Glu Thr Val Val				
	100	105	110	
Gly Val Ile Asn Gly Lys Val Lys Gly Gly Phe Thr Val Glu Leu Asn				
	115	120	125	
Gly Ile Arg Ala Phe Leu Pro Gly Ser Leu Val Asp Val Arg Pro Val				
	130	135	140	
Arg Asp Thr Leu His Leu Glu Gly Lys Glu Leu Glu Phe Lys Val Ile				
	145	150	155	160

Lys Leu Asp Gln Lys Arg Asn Asn Val Val Val Ser Arg Arg Ala Val
 165 170 175
 Ile Glu Ser Glu Asn Ser Ala Glu Arg Asp Gln Leu Leu Glu Asn Leu
 180 185 190
 Gln Glu Gly Met Glu Val Lys Gly Ile Val Lys Asn Leu Thr Asp Tyr
 195 200 205
 Gly Ala Phe Val Asp Leu Gly Gly Val Asp Gly Leu Leu His Ile Thr
 210 215 220
 Asp Met Ala Trp Lys Arg Val Lys His Pro Ser Glu Ile Val Asn Val
 225 230 235 240
 Gly Asp Glu Ile Thr Val Lys Val Leu Lys Phe Asp Arg Glu Arg Thr
 245 250 255
 Arg Val Ser Leu Gly Leu Lys Gln Leu Gly Glu Asp Pro Trp Val Ala
 260 265 270
 Ile Ala Lys Arg Tyr Pro Glu Gly Thr Lys Leu Thr Gly Arg Val Thr
 275 280 285
 Asn Leu Thr Asp Tyr Gly Cys Phe Val Glu Ile Glu Glu Gly Val Glu
 290 295 300
 Gly Leu Val His Val Ser Glu Met Asp Trp Thr Asn Lys Asn Ile His
 305 310 315 320
 Pro Ser Lys Val Val Asn Val Gly Asp Val Val Glu Val Met Val Leu
 325 330 335
 Asp Ile Asp Glu Glu Arg Arg Arg Ile Ser Leu Gly Leu Lys Gln Cys
 340 345 350
 Lys Asn Asn Pro Trp Gln Gln Phe Ala Glu Thr His Asn Lys Gly Asp
 355 360 365
 Arg Val Glu Gly Lys Ile Lys Ser Ile Thr Asp Phe Gly Ile Phe Ile
 370 375 380
 Gly Leu Asp Gly Gly Ile Asp Gly Leu Val His Leu Ser Asp Ile Ser
 385 390 395 400
 Trp Asn Val Ala Gly Glu Glu Ala Val Arg Glu Tyr Lys Lys Gly Asp
 405 410 415
 Glu Ile Ala Ala Val Val Leu Gln Val Asp Ala Glu Arg Glu Arg Ile
 420 425 430
 Ser Leu Gly Val Lys Gln Leu Ala Glu Asp Pro Phe Asn Asn Trp Val
 435 440 445
 Ala Leu Asn Lys Lys Gly Ala Ile Val Asn Gly Lys Val Thr Ala Val
 450 455 460
 Asp Ala Lys Gly Ala Thr Val Glu Leu Ala Asp Gly Val Glu Gly Tyr
 465 470 475 480
 Leu Arg Ala Ser Glu Ala Ser Arg Asp Arg Val Glu Asp Ala Thr Leu
 485 490 495
 Val Leu Ser Val Gly Asp Asp Val Glu Ala Lys Phe Thr Gly Val Asp
 500 505 510
 Arg Lys Asn Arg Ala Ile Ser Leu Ser Val Arg Ala Lys Asp Glu Ala
 515 520 525
 Asp Glu Lys Asp Ala Ile Ala Thr Val Asn Lys Gln Glu Asp Ala Asn
 530 535 540
 Phe Ser Asn Asn Ala Met Ala Glu Ala Phe Lys Ala Ala Lys Gly Glu
 545 550 555 560

<210> 8486

<211> 760

<212> PRT

<213> Enterobacter cloacae

<400> 8486

Asn Met Glu Val Lys Met Gly Ile His Val Ile Ser Met Cys Ala Ile
 1 5 10 15

Leu Ala Ile Ile Pro Leu Tyr Trp Leu Pro Val Leu Pro Asp Leu His
 20 25 30
 Ile Val Trp Leu Leu Ile Ala Ala Gly Ile Ala Leu Ser Val Gln Gln
 35 40 45
 Arg Lys Trp Leu Arg Phe Ser Gly Leu Ala Leu Leu Phe Met Cys Trp
 50 55 60
 Gly Ile Leu Ala Ala Gln Glu Ser Val Trp Pro Met Asn His Leu Thr
 65 70 75 80
 Lys Val Pro Gln Gln Ala Glu Val Val Ile Thr Ala Thr Asp Gly Ala
 85 90 95
 Thr Met His Gln Gly Arg Ile Val Ser Leu Asn Gly Glu Arg Val Trp
 100 105 110
 Ala Ala Met Gly Val Ala Leu Tyr Gly Asn Tyr Leu Pro Gln Asn Val
 115 120 125
 Cys Val Gly Gln Arg Trp Ala Met Thr Leu Arg Leu Arg Ala Val His
 130 135 140
 Gly Glu Leu Asn Asp Gly Gly Tyr Asp Ser Gln Lys Asn Ala Phe Val
 145 150 155 160
 Arg His Gln Thr Leu Ser Gly Arg Phe Thr His Ala Ala Leu Val Asp
 165 170 175
 Glu Gly Cys Ser Leu Arg Ala Gln Tyr Leu Thr Ser Leu Gln Ser Thr
 180 185 190
 Leu Ser Ala Tyr Gln Trp Gly Pro Val Ile Leu Gly Leu Gly Met Gly
 195 200 205
 Glu Arg Leu Ser Val Ser Arg Glu Ile Lys Asn Leu Met Arg Glu Thr
 210 215 220
 Gly Thr Met His Leu Met Ala Ile Ser Gly Leu His Ile Ala Leu Ala
 225 230 235 240
 Ala Ser Val Ile Trp Phe Leu Ala Arg Gly Ile Gln Phe Phe Leu Pro
 245 250 255
 Gly Arg Trp Ile Ile Trp Gln Ile Pro Leu Leu Ala Gly Leu Ile Phe
 260 265 270
 Ala Ala Phe Tyr Ala Trp Leu Thr Gly Leu Gln Pro Pro Ala Leu Arg
 275 280 285
 Thr Val Ile Ala Leu Val Val Leu Ala Val Leu Lys Met Ser Gly Arg
 290 295 300
 Gln Trp Ser Pro Trp Gln Val Trp Leu Thr Cys Val Ala Ala Ile Leu
 305 310 315 320
 Val Phe Asp Pro Leu Ala Val Leu Ser Gln Ser Leu Ala Leu Ser Ala
 325 330 335
 Phe Ala Val Ala Ala Leu Ile Phe Trp Tyr Gln Trp Leu Pro Leu Pro
 340 345 350
 Leu Trp Gln Arg Gly Arg Cys Leu Arg Pro Leu Val Thr Leu Leu Tyr
 355 360 365
 Leu Gln Val Gly Met Leu Leu Leu Leu Pro Leu Gln Val Leu Ile
 370 375 380
 Phe His Gly Phe Ser Leu Ser Ser Leu Ala Ala Asn Leu Phe Ala Val
 385 390 395 400
 Pro Leu Val Thr Phe Ile Ser Val Pro Leu Ile Leu Leu Gly Met Phe
 405 410 415
 Leu His Leu Phe Pro Val Ala Thr Leu Glu Ser Ile Val Trp Leu Ala
 420 425 430
 Ala Asp Lys Ser Leu Ala Gly Leu Phe Trp Leu Leu Met Arg Leu Pro
 435 440 445
 Asn Gly Trp Gln Asp Val Asp Glu Arg Trp Gln Tyr Leu Thr Leu Leu
 450 455 460
 Pro Trp Leu Leu Ile Ile Gly Trp Arg Phe Arg Ala Phe Ser Ala Val
 465 470 475 480
 Pro Ala Val Cys Leu Ala Gly Ser Val Val Leu Ala Phe Pro Leu Trp
 485 490 495
 His Arg Ala Lys Thr Asp Ser Trp Ser Leu His Met Leu Asp Val Gly


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<210> 8487
<211> 583
<212> PRT
<213> Enterobacter cloacae
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Met	His	Asn	Asp	Lys	Asp	Leu	Ser	Thr	Trp	Gln	Thr	Phe	Arg	Arg	Leu
1				5					10					15	
Trp	Pro	Met	Ile	Ala	Pro	Phe	Lys	Ala	Gly	Leu	Ile	Val	Ala	Gly	Val
			20					25					30		
Ala	Leu	Ile	Leu	Asn	Ala	Ala	Ser	Asp	Thr	Phe	Met	Leu	Ser	Leu	Leu
		35					40					45			
Lys	Pro	Leu	Leu	Asp	Asp	Gly	Phe	Gly	Lys	Thr	Asp	Arg	Ser	Val	Leu
	50					55					60				
Leu	Trp	Met	Pro	Leu	Val	Val	Ile	Gly	Leu	Met	Ile	Leu	Arg	Gly	Ile
65					70					75					80
Ser	Ser	Tyr	Val	Ser	Ser	Tyr	Cys	Ile	Ser	Trp	Val	Ser	Gly	Lys	Val
				85					90					95	
Val	Met	Thr	Met	Arg	Arg	Arg	Leu	Phe	Ser	His	Met	Met	Gly	Met	Pro
			100					105					110		
Val	Ser	Phe	Phe	Asp	Lys	Gln	Ser	Thr	Gly	Thr	Leu	Leu	Ser	Arg	Ile
		115					120					125			
Thr	Tyr	Asp	Ser	Glu	Gln	Val	Ala	Ser	Ser	Ser	Ser	Ser	Ala	Leu	Ile
	130					135					140				
Thr	Val	Val	Arg	Glu	Gly	Ala	Ser	Ile	Ile	Gly	Leu	Phe	Ala	Met	Met
145					150					155					160
Phe	Tyr	Tyr	Ser	Trp	Gln	Leu	Ser	Leu	Ile	Leu	Ile	Val	Leu	Ala	Pro

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      165      170      175
Ile Val Ser Ile Ala Ile Arg Val Val Ser Lys Arg Phe Arg Asn Ile
      180      185      190
Ser Lys Asn Met Gln Asn Thr Met Gly Gln Val Thr Thr Ser Ala Glu
      195      200      205
Gln Met Leu Lys Gly His Lys Glu Val Leu Ile Phe Gly Gly Gln Glu
      210      215      220
Val Glu Thr Lys Arg Phe Asp Lys Val Ser Asn Arg Met Arg Leu Gln
      225      230      235
Gly Met Lys Met Val Ser Ala Ser Ser Ile Ser Asp Pro Ile Ile Gln
      245      250      255
Leu Ile Ala Ser Leu Ala Leu Ala Phe Val Leu Tyr Ala Ala Ser Phe
      260      265      270
Pro Ser Val Met Glu Thr Leu Thr Ala Gly Thr Ile Thr Val Val Phe
      275      280      285
Ser Ser Met Ile Ala Leu Met Arg Pro Leu Lys Ser Leu Thr Asn Val
      290      295      300
Asn Ala Gln Phe Gln Arg Gly Met Ala Ala Cys Gln Thr Leu Phe Ser
      305      310      315
Ile Leu Asp Ser Glu Gln Glu Lys Asp Glu Gly Thr Arg Val Ile Glu
      325      330      335
Arg Ala Lys Gly Asp Leu Glu Phe Arg Asn Val Thr Phe Thr Tyr Pro
      340      345      350
Gly Arg Glu Val Pro Ala Leu Arg Asp Ile Ser Leu Ser Ile Pro Ala
      355      360      365
Gly Lys Thr Val Ala Leu Val Gly Arg Ser Gly Ser Gly Lys Ser Thr
      370      375      380
Ile Ala Ser Leu Ile Thr Arg Phe Tyr Asp Ile Asp Gln Gly Glu Ile
      385      390      395
Leu Leu Asp Gly His Asp Leu Arg Glu Tyr Thr Leu Gln Ser Leu Arg
      405      410      415
Asn Gln Val Ala Leu Val Ser Gln Asn Val His Leu Phe Asn Asp Thr
      420      425      430
Val Ala Asn Asn Ile Ala Tyr Ala Arg Thr Glu Glu Tyr Ser Arg Glu
      435      440      445
Glu Ile Glu Asn Ala Ala Arg Met Ala Tyr Ala Met Asp Phe Ile Asn
      450      455      460
Lys Met Asp Asn Gly Leu Asp Thr Ile Ile Gly Glu Asn Gly Val Leu
      465      470      475
Leu Ser Gly Gly Gln Arg Gln Arg Ile Ala Ile Ala Arg Ala Leu Leu
      485      490      495
Arg Asn Ser Pro Ile Leu Ile Leu Asp Glu Ala Thr Ser Ala Leu Asp
      500      505      510
Thr Glu Ser Glu Arg Ala Ile Gln Ser Ala Leu Asp Glu Leu Gln Lys
      515      520      525
Asn Arg Thr Ser Leu Val Ile Ala His Arg Leu Ser Thr Ile Glu Gln
      530      535      540
Ala Asp Glu Ile Val Val Val Glu Asp Gly Val Ile Val Glu Arg Gly
      545      550      555
Ser His Ala Asp Leu Leu Glu Gln Arg Gly Val Tyr Ala Gln Leu His
      565      570      575
Lys Met Gln Phe Gly Gln
      580

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<210> 8488

<211> 415

<212> PRT

<213> Enterobacter cloacae

<400> 8488

Leu Thr Gly Lys Arg Met Ser Leu Pro Gln Leu Ser Leu Ala Ala Ala

1				5					10					15		
Arg	Asn	Leu	His	Leu	Ala	Ala	Gln	Gly	Leu	Leu	Lys	Lys	Pro	Arg	Arg	
			20					25					30			
Arg	Ala	Gln	Pro	Ala	Asp	Ile	Leu	Ser	Thr	Val	Gln	Arg	Met	Ser	Leu	
		35					40					45				
Leu	Gln	Ile	Asp	Thr	Ile	Asn	Ile	Val	Ala	Arg	Ser	Pro	Tyr	Leu	Val	
	50					55					60					
Leu	Phe	Ser	Arg	Leu	Gly	Asn	Tyr	Pro	Pro	Gln	Trp	Leu	Asp	Asn	Ala	
65					70					75				80		
Leu	Ser	Gln	Gly	Glu	Leu	Met	Glu	Tyr	Trp	Ala	His	Glu	Ala	Cys	Phe	
			85					90					95			
Leu	Pro	Arg	Ser	Asp	Phe	Ala	Leu	Val	Arg	His	Arg	Met	Leu	Ala	Pro	
			100					105					110			
Asp	Lys	Met	Gly	Trp	Lys	Tyr	Arg	Gln	Glu	Trp	Met	Val	Glu	His	Ala	
	115						120					125				
Asp	Glu	Ile	Glu	Gln	Leu	Ile	Ala	His	Ile	Gln	Lys	Asn	Gly	Pro	Val	
	130				135						140					
Arg	Ser	Ala	Asp	Phe	Glu	His	Pro	Arg	Lys	Gly	Ala	Ser	Gly	Trp	Trp	
145					150					155					160	
Glu	Trp	Lys	Pro	His	Lys	Arg	His	Leu	Glu	Gly	Leu	Phe	Thr	Ser	Gly	
				165				170						175		
Lys	Val	Met	Val	Val	Glu	Arg	Arg	Asn	Phe	Gln	Arg	Val	Tyr	Asp	Leu	
			180					185					190			
Thr	His	Arg	Val	Met	Pro	His	Trp	Asp	Asp	Thr	His	Asp	Leu	Leu	Ser	
	195						200					205				
Gln	Asp	Val	Ala	Glu	Ala	Ile	Met	Leu	Gly	Asn	Ser	Ala	Arg	Ser	Leu	
	210					215					220					
Gly	Ile	Phe	Arg	Pro	Gln	Trp	Leu	Ala	Asp	Tyr	Tyr	Arg	Leu	Arg	Gln	
225					230				235						240	
Pro	Arg	Leu	Lys	Pro	Leu	Leu	Glu	Thr	Trp	Gln	Arg	Glu	Gln	Arg	Val	
			245					250						255		
Met	Pro	Val	Ser	Val	Glu	Ser	Leu	Gly	Glu	Met	Trp	Leu	His	Ala	Asp	
			260				265						270			
Leu	Phe	Pro	Leu	Leu	Ala	Gln	Ala	Gln	Glu	Gly	Lys	Leu	Gln	Ala	Thr	
	275					280						285				
His	Ser	Ala	Val	Leu	Ser	Pro	Phe	Asp	Pro	Val	Val	Trp	Asp	Arg	Lys	
	290				295					300						
Arg	Ala	Glu	Gln	Leu	Phe	Asp	Phe	Ser	Tyr	Arg	Leu	Glu	Cys	Tyr	Thr	
305					310				315						320	
Pro	Ala	Pro	Arg	Arg	Gln	Tyr	Gly	Tyr	Phe	Val	Leu	Pro	Leu	Leu	His	
			325					330						335		
Lys	Gly	Gln	Leu	Val	Gly	Arg	Met	Asp	Ala	Lys	Met	His	Arg	Lys	Thr	
		340					345						350			
Gly	Met	Leu	Glu	Ile	Ile	Ala	Leu	Trp	Leu	Glu	Glu	Gly	Ile	Lys	Val	
	355					360						365				
Thr	Ala	Gly	Leu	Glu	Lys	Gly	Leu	Thr	Thr	Ala	Leu	Ser	Glu	Phe	Ala	
	370				375					380						
Arg	Trp	Gln	Gly	Ala	His	Glu	Ile	Val	Leu	Gly	Arg	Val	Pro	Val	Glu	
385					390				395						400	
Leu	Phe	Ala	Thr	Cys	Arg	Asp	Gly	Trp	Glu	Thr	Asp	Thr	Pro			
			405						410					415		

<210> 8489

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 8489

Lys	Gly	Asn	Val	Ile	Ser	Phe	Ser	Asp	Tyr	Pro	Tyr	Gly	Gly	Thr	Met
1				5					10					15	
Asp	His	Arg	Leu	Leu	Glu	Ile	Ile	Ala	Cys	Pro	Val	Cys	Asn	Gly	Lys

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<210> 8490
<211> 300
<212> PRT
<213> Enterobacter cloacae
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Ser 1	His	Met	Glu	Gln 5	Leu	Arg	Ala	Glu	Leu 10	Ser	His	Leu	Leu	Gly 15	Glu
Lys	Leu	Ser	Arg 20	Val	Glu	Cys	Val	Asn 25	Glu	Lys	Ala	Asp	Ser 30	Ala	Leu
Trp	Ser	Leu 35	Tyr	Asp	Ser	Gln	Gly 40	Asn	Pro	Met	Pro	Leu 45	Met	Ala	Arg
Ser	Phe 50	Thr	Ser	Pro	Gly	Val 55	Ala	Arg	Gln	Leu	Ala 60	Trp	Lys	Met	Ser
Met 65	Leu	Ala	Arg	Glu	Gly 70	Thr	Val	Arg	Met	Pro 75	Thr	Val	Tyr	Gly	Val 80
Met	Thr	His	Glu	Glu 85	His	Pro	Ala	Pro	Asp 90	Val	Leu	Leu	Ile	Glu 95	Arg
Leu	Arg	Gly	Val 100	Ser	Val	Glu	Ala	Pro 105	Thr	Arg	Thr	Pro	Glu 110	Arg	Trp
Glu	Gln	Leu 115	Lys	Asp	Gln	Ile	Val 120	Glu	Ala	Leu	Leu	Ala 125	Trp	His	Arg
Gln	Asp 130	Ser	Arg	Gly	Leu	Val 135	Gly	Ala	Val	Asp	Ser 140	Thr	Gln	Glu	Asn
Leu 145	Trp	Pro	Leu	Trp	Tyr 150	Arg	Gln	Arg	Val	Glu 155	Val	Leu	Trp	Gly	Thr 160
Leu	Asn	Gln	Phe	Asn 165	Asn	Thr	Gly	Leu	Thr 170	Met	Gln	Asp	Lys	Arg 175	Ile
Leu	Phe	Arg	Thr 180	Arg	Glu	Cys	Leu	Pro 185	Thr	Leu	Phe	Glu 190	Gly	Phe	Asn
Asp	Asn 195	Cys	Val	Leu	Val	His	Gly 200	Asn	Phe	Thr	Leu	Arg 205	Ser	Met	Leu
Lys	Asp 210	Ser	Arg	Ser	Asp	Gln 215	Leu	Leu	Ala	Met	Val 220	Gly	Pro	Gly	Ile
Met 225	Leu	Trp	Ala	Pro	Arg	Glu 230	Tyr	Glu	Leu	Phe 235	Arg	Leu	Ser	Glu	Gly 240
Gly	Ala	Ala	Glu	Asp 245	Leu	Leu	Trp	His	Tyr 250	Leu	Gln	Arg	Ala 255	Pro	Val
Ala	Glu	Ala	Phe 260	Leu	Trp	Arg	Arg	Trp 265	Leu	Tyr	Leu	Leu	Trp 270	Asp	Glu
Val	Ala	Gln 275	Leu	Val	Asn	Thr	Gly 280	Arg	Phe	Asn	Arg	Ala 285	Ser	Phe	Asp
Leu	Ala 290	Ala	Lys	Ser	Leu	Leu 295	Pro	Trp	Leu	Ala					

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<210> 8491
<211> 259
<212> PRT
<213> Enterobacter cloacae
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Ala Pro Gly Trp Ala Lys Phe Gly Asp Ile Thr Ala Met Ser Ile Ile
1 5 10 15

Gly Arg Ile His Ser Phe Glu Ser Cys Gly Thr Val Asp Gly Pro Gly
 20 25 30
 Ile Arg Phe Ile Thr Phe Phe Gln Gly Cys Leu Met Arg Cys Leu Tyr
 35 40 45
 Cys His Asn Arg Asp Thr Trp Asp Thr His Gly Gly Lys Glu Val Thr
 50 55 60
 Val Glu Asp Leu Met Lys Glu Val Val Thr Tyr Arg His Phe Met Asn
 65 70 75 80
 Ala Ser Gly Gly Gly Val Thr Ala Ser Gly Gly Glu Ala Ile Leu Gln
 85 90 95
 Ala Glu Phe Val Arg Asp Trp Phe Arg Ala Cys His Lys Glu Gly Ile
 100 105 110
 His Thr Cys Leu Asp Thr Asn Gly Phe Val Arg Arg Tyr Asp Pro Val
 115 120 125
 Ile Asp Glu Leu Leu Glu Val Thr Asp Leu Val Met Leu Asp Leu Lys
 130 135 140
 Gln Met Asn Asp Glu Ile His Gln Asn Leu Val Gly Val Ser Asn His
 145 150 155 160
 Arg Thr Leu Glu Phe Ala Lys Tyr Ile Ala Asn Lys Gly Val Lys Thr
 165 170 175
 Trp Ile Arg Tyr Val Val Val Pro Gly Trp Ser Asp Asp Asp Ser
 180 185 190
 Ala His Arg Leu Gly Glu Phe Thr Arg Asp Met Gly Asn Val Glu Lys
 195 200 205
 Ile Glu Leu Leu Pro Tyr His Glu Leu Gly Lys His Lys Trp Val Ala
 210 215 220
 Met Gly Glu Glu Tyr Lys Leu Asp Gly Val Lys Pro Pro Lys Lys Glu
 225 230 235 240
 Thr Met Glu Arg Val Lys Gly Ile Leu Glu Gln Tyr Gly His Lys Val
 245 250 255
 Met Tyr

<210> 8492

<211> 100

<212> PRT

<213> Enterobacter cloacae

<400> 8492

Arg Gly Gly Gly Met Gly Arg Ala Thr Ser Leu Pro Asp Ala Val Cys
 1 5 10 15
 Glu Asp Asp Val Pro Phe Leu Leu Val Thr Ser Ala Ser His Leu Pro
 20 25 30
 Arg Ala Met Ile Phe Phe Glu Lys Gln Gly Leu His Pro Leu Pro Ala
 35 40 45
 Pro Ala Asn Gln Met Ala Ile Asp Ala Pro Leu Asn Pro Trp Glu Arg
 50 55 60
 Ile Ile Pro Ser Pro Val Trp Leu Met His Ser Asp Arg Val Gly Tyr
 65 70 75 80
 Glu Thr Leu Gly Arg Leu Trp Gln Trp Leu Lys Gly Ser Ser Gly Lys
 85 90 95
 Pro Gly Gln Glu
 100

<210> 8493

<211> 656

<212> PRT

<213> Enterobacter cloacae

<400> 8493

Arg Leu Arg Asn Ala Thr Ser Pro Lys Asn Ser Gly Gly Thr Leu Ser

1	5	10	15
Asn Ala Ile Arg Trp Arg Ser Asn Ala Phe Ile Phe Leu Cys Leu Asn			
20	25	30	
Ser Arg Leu Leu Ile Ser Ile Ala Gln Pro Phe Ile Phe Ala Gly			
35	40	45	
Asp Ser Thr Arg His Ala Lys Pro Val Ser Leu Arg Ala Leu Arg Thr			
50	55	60	
Ile Lys Val Asn Ala Met Thr Gln Thr Phe Ile Pro Gly Lys Asp Ala			
65	70	75	80
Ala Leu Glu Asp Ser Ile Ala Arg Phe Gln Gln Lys Leu Thr Asp Leu			
85	90	95	
Gly Phe Asn Ile Glu Glu Ala Ser Trp Leu Asn Pro Val Pro His Val			
100	105	110	
Trp Ser Val His Ile Arg Asp Lys Asp Cys Ala Leu Cys Phe Thr Asn			
115	120	125	
Gly Lys Gly Ala Thr Lys Lys Ala Ala Leu Ala Ser Ala Leu Gly Glu			
130	135	140	
Tyr Phe Glu Arg Leu Ser Thr Asn Tyr Phe Phe Ala Asp Phe Trp Leu			
145	150	155	160
Gly Glu Thr Ile Ala Asn Gly Pro Phe Val His Tyr Pro Asn Glu Lys			
165	170	175	
Trp Phe Pro Leu Thr Glu Asn Asp Glu Leu Pro Glu Gly Ile Leu Asp			
180	185	190	
Ala Arg Leu Arg Ala Phe Tyr Asp Pro Glu Asn Glu Leu Thr Gly Ser			
195	200	205	
Met Leu Ile Asp Leu Gln Ser Gly Asn Glu Asp Arg Gly Ile Cys Thr			
210	215	220	
Leu Pro Phe Thr Arg Gln Ser Asp Glu Gln Thr Val Tyr Ile Pro Met			
225	230	235	240
Asn Ile Val Gly Asn Leu Tyr Val Ser Asn Gly Met Ser Ala Gly Asn			
245	250	255	
Thr Arg Asn Glu Ala Arg Val Gln Gly Leu Ser Glu Val Phe Glu Arg			
260	265	270	
His Ile Lys Asn Arg Ile Ile Ala Glu Ser Ile Ser Leu Pro Glu Ile			
275	280	285	
Pro Ala Asp Val Leu Ala Arg Tyr Pro Gly Val Val Glu Ser Ile Ala			
290	295	300	
Lys Leu Glu Ala Glu Gly Phe Pro Ile Phe Ala Tyr Asp Gly Ser Leu			
305	310	315	320
Gly Gly Lys Tyr Pro Val Ile Cys Val Val Leu Phe Asn Pro Ala Asn			
325	330	335	
Gly Thr Cys Phe Ala Ser Phe Gly Ala His Pro Asp Phe Gly Val Ala			
340	345	350	
Leu Glu Arg Thr Val Thr Glu Leu Leu Gln Gly Arg Ser Leu Lys Asp			
355	360	365	
Leu Asp Val Phe Thr Pro Pro Thr Phe Asp Asp Glu Glu Val Ala Glu			
370	375	380	
His Thr Asn Leu Glu Thr His Phe Ile Asp Ser Ser Gly Leu Ile Ser			
385	390	395	400
Trp Asp Met Phe Lys Gln Asp Ala Asp Tyr Pro Phe Val Asp Trp Ser			
405	410	415	
Phe Ala Gly Thr Thr Glu Glu Glu Phe Ala Thr Leu Met Ala Ile Phe			
420	425	430	
His Ala Glu Asp Gln Glu Val Tyr Ile Ala Asp Tyr Glu His Leu Gly			
435	440	445	
Val Tyr Ala Cys Arg Ile Ile Val Pro Gly Met Ser Asp Ile Tyr Pro			
450	455	460	
Ala Glu Asp Leu Trp Leu Ala Asn Asn Ser Met Gly Ala His Leu Arg			
465	470	475	480
Glu Thr Leu Leu Ala Leu Pro Gly Ser Glu Trp Asp Lys Glu Asp Tyr			
485	490	495	

Leu Asn Leu Ile Ala Gln Leu Asp Glu Glu Gly His Asp Asp Phe Thr
 500 505 510
 Arg Val Arg Glu Leu Leu Gly Leu Ala Thr Gly Lys Asp Asn Gly Trp
 515 520 525
 Tyr Thr Leu Arg Ile Gly Glu Leu Lys Ala Met Leu Ala Leu Ala Gly
 530 535 540
 Gly Asp Leu Asp Gln Ala Leu Ala Trp Thr Glu Trp Thr Met Glu Phe
 545 550 555 560
 Asn Gln Ser Val Phe Ser Ala Glu Arg Thr Asn Tyr Tyr Arg Cys Leu
 565 570 575
 Gln Thr Leu Leu Leu Leu Ser Gln Glu Asp Asp Arg Gln Pro Leu Gln
 580 585 590
 Tyr Leu Asn Ala Phe Val Arg Met Tyr Gly Ala Asp Ala Val Glu Ala
 595 600 605
 Ala Ser Ala Ala Leu Ser Gly Glu Glu Pro Phe Tyr Gly Leu Gln Ala
 610 615 620
 Val Asp Ser Asp Leu Gln Ala Phe Pro Ala His Gln Ser Leu Leu Asn
 625 630 635 640
 Ala Tyr Glu Lys Leu Gln Lys Ala Lys Ala Ala Tyr Trp Ser Lys
 645 650 655

<210> 8494

<211> 323

<212> PRT

<213> Enterobacter cloacae

<400> 8494

Asn His Thr His Cys Gly Pro Ile Ser Gln Ala Arg Tyr Asp Leu Tyr
 1 5 10 15
 Gln Phe Leu Phe Tyr Asn Ala Leu Leu Val Ser Arg Arg Arg Leu Asn
 20 25 30
 Lys Glu Arg Val Ser Val Lys Ala Asp Asn Pro Phe Asp Leu Leu Leu
 35 40 45
 Pro Ala Ala Met Ala Lys Val Ala Glu Glu Ala Gly Val Tyr Lys Ala
 50 55 60
 Thr Lys His Pro Met Thr Thr Phe Phe Leu Ala Ile Thr Ala Gly Val
 65 70 75 80
 Phe Ile Ser Ile Ala Phe Val Phe Tyr Ile Thr Ala Thr Thr Gly Thr
 85 90 95
 Ala Gly Met Pro Phe Gly Ile Ala Lys Leu Ile Gly Gly Ile Cys Phe
 100 105 110
 Ser Leu Gly Leu Ile Leu Cys Val Ile Cys Gly Ala Asp Leu Phe Thr
 115 120 125
 Ser Thr Val Leu Ile Val Val Ala Lys Ala Ser Gly Arg Ile Thr Trp
 130 135 140
 Gly Gln Leu Gly Arg Asn Trp Leu Asn Val Tyr Val Gly Asn Leu Ile
 145 150 155 160
 Gly Cys Leu Leu Phe Val Leu Leu Met Trp Leu Ser Gly Glu Tyr Met
 165 170 175
 Thr Ala Asn Gly Gly Trp Gly Leu Asn Val Leu Gln Thr Ala Asp His
 180 185 190
 Lys Met His His Thr Phe Ile Glu Ala Val Ala Leu Gly Ile Leu Ala
 195 200 205
 Asn Leu Met Val Cys Leu Ala Val Trp Met Ser Tyr Ser Gly Arg Ser
 210 215 220
 Leu Met Asp Lys Ala Met Ile Met Val Leu Pro Val Ala Met Phe Val
 225 230 235 240
 Ala Ser Gly Phe Glu His Ser Ile Ala Asn Met Phe Met Ile Pro Met
 245 250 255
 Gly Ile Val Ile Arg Asn Phe Ala Ser Pro Glu Phe Trp Thr Ala Val
 260 265 270

Gly Ser Thr Pro Glu Ser Phe Ser His Leu Thr Ile Met Asn Phe Ile
 275 280 285
 Thr Asp Asn Leu Ile Pro Val Thr Ile Gly Asn Ile Ile Gly Gly Gly
 290 295 300
 Leu Leu Val Gly Leu Thr Tyr Trp Val Ile Tyr Leu Arg Gly Gly Asp
 305 310 315 320
 His His

<210> 8495

<211> 766

<212> PRT

<213> Enterobacter cloacae

<400> 8495

Glu Gly Arg Cys Tyr Met Ser Glu Leu Asn Glu Lys Leu Ala Thr Ala
 1 5 10 15
 Trp Glu Gly Phe Thr Lys Gly Asp Trp Gln Asn Glu Val Asn Val Arg
 20 25 30
 Asp Phe Ile Gln Lys Asn Tyr Thr Pro Tyr Glu Gly Asp Glu Ser Phe
 35 40 45
 Leu Ala Gly Ala Thr Asp Ala Thr Thr Lys Leu Trp Asp Ser Val Met
 50 55 60
 Glu Gly Val Lys Leu Glu Asn Arg Thr His Ala Pro Val Asp Phe Asp
 65 70 75 80
 Thr Ser Val Ala Ser Thr Ile Thr Ser His Asp Ala Gly Tyr Ile Asn
 85 90 95
 Lys Ala Leu Glu Lys Ile Val Gly Leu Gln Thr Glu Ala Pro Leu Lys
 100 105 110
 Arg Ala Ile Ile Pro Phe Gly Gly Ile Lys Met Val Glu Gly Ser Cys
 115 120 125
 Lys Ala Tyr Asn Arg Glu Leu Asp Pro Met Leu Lys Lys Ile Phe Thr
 130 135 140
 Glu Tyr Arg Lys Thr His Asn Gln Gly Val Phe Asp Val Tyr Thr Lys
 145 150 155 160
 Asp Ile Leu Asn Cys Arg Lys Ser Gly Val Leu Thr Gly Leu Pro Asp
 165 170 175
 Ala Tyr Gly Arg Gly Arg Ile Ile Gly Asp Tyr Arg Arg Val Ala Leu
 180 185 190
 Tyr Gly Ile Asp Phe Leu Met Lys Asp Lys Tyr Ala Gln Phe Val Ser
 195 200 205
 Leu Gln Ser Asp Leu Glu Asn Gly Val Asn Leu Glu Ala Thr Ile Arg
 210 215 220
 Leu Arg Glu Glu Ile Ala Glu Gln His Arg Ala Leu Gly Gln Ile Lys
 225 230 235 240
 Glu Met Ala Ala Lys Tyr Gly Cys Asp Ile Ser Gly Pro Ala Thr Asn
 245 250 255
 Ala Gln Glu Ala Ile Gln Trp Thr Tyr Phe Gly Tyr Leu Ala Ala Val
 260 265 270
 Lys Ser Gln Asn Gly Ala Ala Met Ser Phe Gly Arg Val Ser Thr Phe
 275 280 285
 Leu Asp Ala Tyr Ile Glu Arg Asp Leu Lys Ala Gly Lys Ile Thr Glu
 290 295 300
 Gln Asp Ala Gln Glu Met Ile Asp His Leu Val Met Lys Leu Arg Met
 305 310 315 320
 Val Arg Phe Leu Arg Thr Pro Glu Tyr Asp Glu Leu Phe Ser Gly Asp
 325 330 335
 Pro Ile Trp Ala Thr Glu Ser Ile Gly Gly Met Gly Val Asp Gly Arg
 340 345 350
 Thr Leu Val Thr Lys Asn Ser Phe Arg Phe Leu Asn Thr Leu Tyr Thr
 355 360 365

Met Gly Pro Ser Pro Glu Pro Asn Ile Thr Val Leu Trp Ser Glu Lys
 370 375 380
 Leu Pro Leu Asn Phe Lys Lys Phe Ala Ala Lys Val Ser Ile Asp Thr
 385 390 395 400
 Ser Ser Leu Gln Tyr Glu Asn Asp Asp Leu Met Arg Pro Asp Phe Asn
 405 410 415
 Asn Asp Asp Tyr Ala Ile Ala Cys Cys Val Ser Pro Met Val Val Gly
 420 425 430
 Lys Gln Met Gln Phe Phe Gly Ala Arg Ala Asn Leu Ala Lys Thr Met
 435 440 445
 Leu Tyr Ala Ile Asn Gly Gly Val Asp Glu Lys Leu Lys Met Gln Val
 450 455 460
 Gly Pro Lys Ser Glu Pro Ile Lys Gly Asp Val Leu Asn Tyr Asp Glu
 465 470 475 480
 Val Met Asp Arg Met Asp His Phe Met Asp Trp Leu Ala Lys Gln Tyr
 485 490 495
 Val Thr Ala Leu Asn Val Ile His Tyr Met His Asp Lys Tyr Ser Tyr
 500 505 510
 Glu Ala Ser Leu Met Ala Leu His Asp Arg Asp Val Val Arg Thr Met
 515 520 525
 Ala Cys Gly Ile Ala Gly Leu Ser Val Ala Ala Asp Ser Leu Ser Ala
 530 535 540
 Ile Lys Tyr Ala Lys Val Lys Pro Ile Arg Asp Glu Asp Gly Leu Ala
 545 550 555 560
 Ile Asp Phe Glu Ile Glu Gly Glu Tyr Pro Gln Phe Gly Asn Asn Asp
 565 570 575
 Ala Arg Val Asp Asp Met Ala Val Asp Leu Val Glu Arg Phe Met Lys
 580 585 590
 Lys Ile Gln Lys Leu Thr Thr Tyr Arg Asn Ala Ile Pro Thr Gln Ser
 595 600 605
 Val Leu Thr Ile Thr Ser Asn Val Val Tyr Gly Lys Lys Thr Gly Asn
 610 615 620
 Thr Pro Asp Gly Arg Arg Ala Gly Ala Pro Phe Gly Pro Gly Ala Asn
 625 630 635 640
 Pro Met His Gly Arg Asp Gln Lys Gly Ala Val Ala Ser Leu Thr Ser
 645 650 655
 Val Ala Lys Leu Pro Phe Ala Tyr Ala Lys Asp Gly Ile Ser Tyr Thr
 660 665 670
 Phe Ser Ile Val Pro Asn Ala Leu Gly Lys Asp Asp Glu Val Arg Lys
 675 680 685
 Thr Asn Leu Ala Gly Leu Met Asp Gly Tyr Phe His His Glu Ala Ser
 690 695 700
 Ile Glu Gly Gly Gln His Leu Asn Val Asn Val Met Asn Arg Glu Met
 705 710 715 720
 Leu Leu Asp Ala Met Glu His Pro Glu Lys Tyr Pro Gln Leu Thr Ile
 725 730 735
 Arg Val Ser Gly Tyr Ala Val Arg Phe Asn Ser Leu Thr Lys Glu Gln
 740 745 750
 Gln Gln Asp Val Ile Thr Arg Thr Phe Thr Gln Ser Met
 755 760 765

<210> 8496

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 8496

Arg Leu Arg Thr Asp Ala Ala Leu Pro Val Pro Gly Gly Cys Pro Pro
 1 5 10 15
 His Ala Leu Ser Val Pro Asp Ala Gln Ser Ala Leu Pro Leu Ser Tyr
 20 25 30

Gln Arg Ser Ser Ser Gly Arg Gln Ile His Pro Pro Ala Pro Arg Cys
 35 40 45
 Lys Ala Val Phe Pro Ala Pro Asp Ala Gly His Pro Cys Cys His Pro
 50 55 60
 Ala Ser Ser Met Gly Pro Glu Ser Asp Gly Pro Tyr Ala Pro Pro Arg
 65 70 75 80
 Arg Phe Ser Arg Tyr Asn Arg Pro Gly Tyr Ala Arg Pro Ala Pro Thr
 85 90 95
 Ser Ala Cys Ser Asp Ala Pro Phe His
 100 105

<210> 8497

<211> 563

<212> PRT

<213> Enterobacter cloacae

<400> 8497

His Lys Ile Leu Phe Leu Gln Ile Tyr Asp Gly Glu Leu Thr Met Asn
 1 5 10 15
 Gly Ala Gln Trp Val Val His Ala Leu Arg Ala Gln Gly Val Glu Thr
 20 25 30
 Val Phe Gly Tyr Pro Gly Gly Ala Ile Met Pro Ile Tyr Asp Ala Leu
 35 40 45
 Tyr Asp Gly Gly Val Glu His Leu Leu Cys Arg His Glu Gln Gly Ala
 50 55 60
 Ala Met Ala Ala Ile Gly Tyr Ala Arg Ala Thr Gly Lys Thr Gly Val
 65 70 75 80
 Cys Met Ala Thr Ser Gly Pro Gly Ala Thr Asn Leu Ile Thr Gly Leu
 85 90 95
 Ala Asp Ala Leu Leu Asp Ser Val Pro Val Val Ala Ile Thr Gly Gln
 100 105 110
 Val Ala Ser Pro Phe Ile Gly Thr Asp Ala Phe Gln Glu Val Asp Val
 115 120 125
 Leu Gly Leu Ser Leu Ala Cys Thr Lys His Ser Phe Leu Val Gln Ser
 130 135 140
 Leu Glu Glu Leu Pro Arg Val Met Ala Glu Ala Phe Glu Val Ala Ser
 145 150 155 160
 Ser Gly Arg Pro Gly Pro Val Leu Val Asp Ile Pro Lys Asp Ile Gln
 165 170 175
 Val Ala Leu Gly Glu Leu Glu Pro His Phe Ser Thr Val Glu Ser Asp
 180 185 190
 Asn Ala Phe Pro His Ala Glu Val Glu Glu Ala Arg Gln Met Ile Ala
 195 200 205
 Gln Ala Lys Gln Pro Met Leu Tyr Val Gly Gly Gly Val Gly Met Ala
 210 215 220
 Gln Ala Val Pro Ala Leu Arg Glu Phe Ile Ala Ala Thr Gln Met Pro
 225 230 235 240
 Ala Thr Cys Thr Leu Lys Gly Leu Gly Ala Val Asp Ala Asp Tyr Pro
 245 250 255
 Tyr Tyr Leu Gly Met Leu Gly Met His Gly Thr Lys Ala Ala Asn Leu
 260 265 270
 Ala Val Gln Glu Cys Asp Leu Leu Ile Ala Val Gly Ala Arg Phe Asp
 275 280 285
 Asp Arg Val Thr Gly Lys Leu Asn Thr Phe Ala Pro Asn Ala Lys Val
 290 295 300
 Ile His Met Asp Ile Asp Pro Ala Glu Met Asn Lys Leu Arg Gln Ala
 305 310 315 320
 His Val Ala Leu Gln Gly Asp Leu Asn Ala Leu Leu Pro Ala Leu Glu
 325 330 335
 Gln Pro Leu Asp Ile Asn Pro Trp Arg Gln His Thr Ala Asp Met Arg
 340 345 350

Ala Glu His Ala Trp Arg Tyr Asp His Pro Gly Glu Ala Ile Tyr Ala
 355 360 365
 Pro Leu Leu Leu Lys Gln Leu Ser Asp Arg Lys Pro Ala Asp Ser Val
 370 375 380
 Val Thr Thr Asp Val Gly Gln His Gln Met Trp Ser Ala Gln His Met
 385 390 395 400
 Thr Tyr Thr Arg Pro Glu Asn Phe Ile Thr Ser Ser Gly Leu Gly Thr
 405 410 415
 Met Gly Phe Gly Leu Pro Ala Ala Val Gly Ala Gln Val Ala Arg Pro
 420 425 430
 Asn Asp Thr Val Ile Cys Ile Ser Gly Asp Gly Ser Phe Met Met Asn
 435 440 445
 Val Gln Glu Leu Gly Thr Val Lys Arg Lys Gln Leu Pro Leu Lys Ile
 450 455 460
 Val Leu Leu Asp Asn Gln Arg Leu Gly Met Val Arg Gln Trp Gln Gln
 465 470 475 480
 Leu Phe Phe Gln Glu Arg Tyr Ser Glu Thr Thr Leu Thr Asp Asn Pro
 485 490 495
 Asp Phe Leu Thr Leu Ala Ser Ala Phe Gly Ile Pro Gly Gln His Ile
 500 505 510
 Thr Arg Lys Asp Gln Val Glu Ala Ala Leu Asp Thr Met Leu Ser Ser
 515 520 525
 Glu Gly Pro Tyr Leu Leu His Val Ser Ile Asp Glu Leu Glu Asn Val
 530 535 540
 Trp Pro Leu Val Pro Pro Gly Ala Ser Asn Ser Gln Met Leu Glu Lys
 545 550 555 560
 Leu Ser

<210> 8498

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 8498

Lys Thr Cys Ile Ala Pro Val Arg Arg Ala Ser Val Pro Pro Arg Arg
 1 5 10 15
 Ser Arg Arg Ile Ala Val Gly Thr Arg Leu Met Thr Ile Ala Pro Lys
 20 25 30
 Ala Ala Phe Ala Arg Trp Asn Met Pro Ile Ala Lys Thr Ala Ala Trp
 35 40 45
 Pro Cys Cys Thr Val Thr Leu Arg Lys Met Ala Val Ser
 50 55 60

<210> 8499

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 8499

Gly Tyr Thr Arg Ala Thr Met Ala His Thr Lys Arg Ser Asp Leu Ala
 1 5 10 15
 Arg Ala Ser Gly Pro His Lys Val Arg Arg Ser Pro Asp Trp Ser Leu
 20 25 30
 Gln Leu Asp Ser Met Lys Ser Glu Ser Leu Val Ile Val Asp Gln Asn
 35 40 45
 Ala Thr Val Asn Thr Phe Pro Gly Leu Val His Thr Ala Arg His Thr
 50 55 60
 Met Gly Val Gly Cys Lys Arg Ser Arg
 65 70

<210> 8500
 <211> 130
 <212> PRT
 <213> Enterobacter cloacae

<400> 8500
 Leu Ile Leu Arg Ala Ile Asn Ser Ser Ala Lys Glu Leu Gly Ala Cys
 1 5 10 15
 Arg Met Ala Glu Ser Phe Thr Thr Thr Asn Arg Phe Phe Asp Asn Lys
 20 25 30
 His Tyr Pro Arg Gly Phe Ser Arg His Gly Asp Phe Thr Ile Lys Glu
 35 40 45
 Ala Gln Leu Leu Glu Arg His Gly Tyr Ala Phe Asn Glu Leu Asp Leu
 50 55 60
 Gly Lys Arg Glu Pro Ala Thr Glu Asp Glu Lys Gln Phe Val Ser Val
 65 70 75 80
 Cys Arg Gly Glu Arg Glu Pro Gln Ser Asp Ala Glu Arg Val Trp Ile
 85 90 95
 Lys Tyr Met Ala Arg Ile Lys Arg Pro Lys Arg Phe His Thr Leu Ser
 100 105 110
 Gly Gly Lys Pro Gln Met Glu Gly Ala Glu Asp Tyr Thr Glu Ser Asp
 115 120 125
 Asp
 130

<210> 8501
 <211> 520
 <212> PRT
 <213> Enterobacter cloacae

<400> 8501
 Thr Gly Gly Leu Thr Met Ala Glu Ser Gln Pro Leu Ser Ala Ala Pro
 1 5 10 15
 Glu Gly Ala Glu Tyr Leu Arg Ala Val Leu Arg Ala Pro Val Tyr Glu
 20 25 30
 Ala Val Gln Val Thr Pro Leu Gln Lys Met Glu Lys Leu Ser Ser Arg
 35 40 45
 Leu Asp Asn Val Ile Leu Val Lys Arg Glu Asp Arg Gln Pro Val His
 50 55 60
 Ser Phe Lys Leu Arg Gly Ala Tyr Ala Met Met Ala Gly Leu Thr Asp
 65 70 75 80
 Glu Gln Lys Ala Arg Gly Val Ile Thr Ala Ser Ala Gly Asn His Ala
 85 90 95
 Gln Gly Val Ala Phe Ser Ser Ala Arg Leu Gly Leu Lys Ala Leu Ile
 100 105 110
 Val Met Pro Val Ala Thr Ala Asp Ile Lys Val Asp Ala Val Arg Gly
 115 120 125
 Phe Gly Gly Glu Val Leu Leu His Gly Ala Asn Phe Asp Glu Ala Lys
 130 135 140
 Ala Lys Ala Ile Glu Leu Ala Gln Gln Gln Gly Phe Thr Trp Val Pro
 145 150 155 160
 Pro Phe Asp His Pro Met Val Ile Ala Gly Gln Gly Thr Leu Ala Leu
 165 170 175
 Glu Leu Leu Gln Gln Asp Ala His Leu Asp Arg Val Phe Val Pro Val
 180 185 190
 Gly Gly Gly Gly Leu Ala Ala Gly Val Ala Val Leu Ile Lys Gln Leu
 195 200 205
 Met Pro Gln Ile Lys Val Ile Ala Val Glu Ala Glu Asp Ser Ala Cys
 210 215 220
 Leu Lys Ala Ala Leu Asp Ala Gly His Pro Val Asp Leu Pro Arg Val
 225 230 235 240

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<210> 8502
<211> 501
<212> PRT
<213> Enterobacter cloacae
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Thr	Thr	Gln	His	His	Glu	Val	Ser	Pro	Met	Ala	Asn	Tyr	Phe	Asn	Thr
1				5					10					15	
Leu	Asn	Leu	Arg	Gln	Gln	Leu	Ala	Gln	Leu	Gly	Lys	Cys	Arg	Phe	Met
			20					25					30		
Ala	Arg	Asp	Glu	Phe	Ala	Asp	Gly	Ala	Ser	Tyr	Leu	Gln	Gly	Lys	Lys
			35				40					45			
Val	Val	Ile	Val	Gly	Cys	Gly	Ala	Gln	Gly	Leu	Asn	Gln	Gly	Leu	Asn
	50					55					60				
Met	Arg	Asp	Ser	Gly	Leu	Asp	Ile	Ser	Tyr	Ala	Leu	Arg	Lys	Glu	Ala
65				70						75				80	
Ile	Ala	Glu	Lys	Arg	Ala	Ser	Trp	Arg	Lys	Ala	Thr	Glu	Asn	Gly	Phe
				85					90					95	
Lys	Val	Gly	Thr	Tyr	Glu	Glu	Leu	Ile	Pro	Gln	Ala	Asp	Leu	Val	Val
			100					105					110		
Asn	Leu	Thr	Pro	Asp	Lys	Gln	His	Ser	Asp	Val	Val	Arg	Ser	Val	Gln
			115				120					125			
Pro	Leu	Met	Lys	Asp	Gly	Ala	Ala	Leu	Gly	Tyr	Ser	His	Gly	Phe	Asn
	130					135					140				

Ile Val Glu Val Gly Glu Gln Ile Arg Lys Asp Ile Thr Val Val Met
 145 150 155 160
 Val Ala Pro Lys Cys Pro Gly Thr Glu Val Arg Glu Glu Tyr Lys Arg
 165 170 175
 Gly Phe Gly Val Pro Thr Leu Ile Ala Val His Pro Glu Asn Asp Pro
 180 185 190
 Lys Gly Glu Gly Met Ala Ile Ala Lys Ala Trp Ala Ala Ala Thr Gly
 195 200 205
 Gly His Arg Ala Gly Val Leu Glu Ser Ser Phe Val Ala Glu Val Lys
 210 215 220
 Ser Asp Leu Met Gly Glu Gln Thr Ile Leu Cys Gly Met Leu Gln Ala
 225 230 235 240
 Gly Ser Leu Leu Cys Phe Asp Lys Leu Val Glu Glu Gly Thr Asp Pro
 245 250 255
 Ala Tyr Ala Glu Lys Leu Ile Gln Phe Gly Trp Glu Thr Ile Thr Glu
 260 265 270
 Ala Leu Lys Gln Gly Gly Ile Thr Leu Met Met Asp Arg Leu Ser Asn
 275 280 285
 Pro Ala Lys Leu Arg Ala Phe Ala Leu Ser Glu Gln Leu Lys Thr Ile
 290 295 300
 Met Ala Pro Leu Phe Gln Lys His Met Asp Asp Ile Ile Ser Gly Glu
 305 310 315 320
 Phe Ser Ser Gly Met Met Ala Asp Trp Ala Asn Asp Asp Lys Lys Leu
 325 330 335
 Leu Thr Trp Arg Glu Glu Thr Gly Lys Thr Ala Phe Glu Thr Ala Pro
 340 345 350
 Gln Tyr Asp Gly Lys Ile Thr Glu Gln Glu Tyr Phe Asp Lys Gly Val
 355 360 365
 Leu Met Ile Ala Met Val Lys Ala Gly Val Glu Leu Ala Phe Glu Thr
 370 375 380
 Met Val Asp Ser Gly Ile Ile Glu Glu Ser Ala Tyr Tyr Glu Ser Leu
 385 390 395 400
 His Glu Leu Pro Leu Ile Ala Asn Thr Ile Ala Arg Lys Arg Leu Tyr
 405 410 415
 Glu Met Asn Val Val Ile Ser Asp Thr Ala Glu Tyr Gly Asn Tyr Leu
 420 425 430
 Phe Ser Tyr Ala Cys Val Pro Leu Leu Lys Glu Phe Met Thr Thr Leu
 435 440 445
 Gln Ala Gly Asp Leu Gly Gln Ala Ile Ala Glu Gly Ala Val Asp Asn
 450 455 460
 Ala Gln Leu Arg Asp Val Asn Glu Ala Ile Arg Ser His Glu Ile Glu
 465 470 475 480
 Lys Val Gly Gln Lys Leu Arg Gly Tyr Met Thr Asp Met Lys Arg Ile
 485 490 495
 Ala Val Ala Gly
 500

<210> 8503

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 8503

Glu Arg Val Gly Trp Arg Lys Ala Leu Arg Arg Leu Ile Val Phe Ser
 1 5 10 15
 Thr Ile Asn Ile Ile Arg Ala Gly Ser Leu Val Thr Ala Ile Ser Leu
 20 25 30
 Ser Lys Lys Leu Asn Phe Leu Ser Ala Met Val Met Pro Leu Thr Ser
 35 40 45
 Trp Ile Trp Val Asn Val Asn Arg Gln Pro Lys Met Lys Asn Ser Leu
 50 55 60

Ser	Leu	Phe	Ala	Val	Val	Ser	Val	Ser	Arg	Asn	Leu	Met	Gln	Asn	Val
65					70					75				80	
Tyr	Gly	Leu	Ser	Ile	Trp	Leu	Ala	Leu	Ser	Val	Leu	Ser	Val	Ser	Ile
			85						90					95	
Arg	Cys	Leu	Ala	Ala	Ser	Arg	Arg	Trp	Lys	Val	Gln	Lys	Thr	Thr	Pro
			100					105					110		
Ser	Leu	Thr	Ile	Lys	Lys	Arg	Arg	Gly	Tyr	Gly	Pro	Phe	Phe	Phe	Tyr
		115					120					125			
Ala	Ser	Ile	Phe	Cys	Arg	Cys	Asn	Ser	Ser	Arg	Ser	Ile	Ala	Arg	
	130					135					140				

<210> 8504

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 8504

Leu	Thr	Asn	Ala	Gly	Glu	Ile	Ile	Met	Met	Gln	His	Gln	Val	Ala	Val
1				5				10					15		
Gln	Ala	Arg	Phe	Asn	Pro	Glu	Thr	Leu	Glu	Arg	Val	Leu	Arg	Val	Val
		20						25					30		
Arg	His	Arg	Gly	Phe	Gln	Ile	Cys	Ser	Val	Asn	Met	Glu	Thr	Ala	Thr
		35					40					45			
Asp	Ala	Gln	Asn	Ile	Ser	Ile	Glu	Leu	Thr	Val	Ala	Ser	Pro	Arg	Pro
		50				55				60					
Val	Asp	Leu	Leu	Phe	Ser	Gln	Leu	Ser	Lys	Leu	Val	Asp	Val	Ala	His
65					70					75				80	
Val	Ala	Ile	Cys	Gln	Ser	Thr	Thr	Thr	Ser	Gln	Gln	Ile	Arg	Ala	
				85					90					95	

<210> 8505

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 8505

Gln	Asp	Glu	Lys	Met	Thr	Thr	Lys	Lys	Ala	Asp	Tyr	Ile	Trp	Phe	Asn
1				5					10					15	
Gly	Glu	Met	Val	Arg	Trp	Glu	Asp	Ala	Lys	Val	His	Val	Met	Ser	His
			20					25					30		
Ala	Leu	His	Tyr	Gly	Thr	Ser	Val	Phe	Glu	Gly	Ile	Arg	Cys	Tyr	Asp
		35					40					45			
Ser	His	Lys	Gly	Pro	Val	Val	Phe	Arg	His	Arg	Glu	His	Met	Gln	Arg
		50				55				60					
Leu	His	Asp	Ser	Ala	Lys	Ile	Tyr	Arg	Phe	Pro	Val	Ser	Gln	Ser	Val
65					70				75					80	
Asp	Glu	Leu	Met	Glu	Ala	Cys	Arg	Glu	Val	Ile	Arg	Gln	Asn	Lys	Leu
			85					90						95	
Thr	Ser	Ala	Tyr	Ile	Arg	Pro	Leu	Val	Phe	Val	Gly	Asp	Val	Gly	Met
		100					105						110		
Gly	Val	Asn	Pro	Pro	Ala	Gly	Tyr	Asn	Thr	Asp	Val	Ile	Ile	Ala	Ala
		115					120					125			
Phe	Pro	Trp	Gly	Ala	Tyr	Leu	Gly	Ala	Glu	Ala	Leu	Asp	Gln	Gly	Ile
		130				135					140				
Asp	Ala	Met	Val	Ser	Ser	Trp	Asn	Arg	Val	Ala	Pro	Asn	Thr	Ile	Pro
145					150				155						160
Thr	Ala	Ala	Lys	Ala	Gly	Gly	Asn	Tyr	Leu	Ser	Ser	Leu	Leu	Val	Gly
			165						170					175	
Ser	Glu	Ala	Arg	Arg	His	Gly	Tyr	Gln	Glu	Gly	Ile	Ala	Leu	Asp	Val
			180				185						190		
Asn	Gly	Tyr	Ile	Ser	Glu	Gly	Ala	Gly	Glu	Asn	Leu	Phe	Glu	Val	Lys

	195		200		205										
Asp	Gly	Ile	Leu	Phe	Thr	Pro	Pro	Phe	Thr	Ser	Ser	Ala	Leu	Pro	Gly
	210					215					220				
Ile	Thr	Arg	Asp	Ala	Ile	Ile	Lys	Leu	Ala	Lys	Asp	Leu	Gly	Ile	Glu
225					230					235					240
Val	Arg	Glu	Gln	Val	Leu	Ser	Arg	Glu	Ser	Leu	Tyr	Leu	Ala	Asp	Glu
				245					250					255	
Val	Phe	Met	Ser	Gly	Thr	Ala	Ala	Glu	Ile	Thr	Pro	Val	Arg	Ser	Val
			260					265					270		
Asp	Gly	Ile	Gln	Val	Gly	Glu	Gly	Arg	Cys	Gly	Pro	Val	Thr	Lys	Arg
	275						280					285			
Ile	Gln	Gln	Ala	Phe	Phe	Gly	Leu	Phe	Thr	Gly	Glu	Thr	Glu	Asp	Lys
	290					295					300				
Tyr	Gly	Trp	Leu	Asp	Gln	Val	Asn	His							
305					310										

<210> 8506

<211> 618

<212> PRT

<213> Enterobacter cloacae

<400> 8506

Ser	Met	Pro	Lys	Tyr	Arg	Ser	Ala	Thr	Thr	Thr	His	Gly	Arg	Asn	Met
1			5					10						15	
Ala	Gly	Ala	Arg	Ala	Leu	Trp	Arg	Ala	Thr	Gly	Met	Thr	Asp	Ala	Asp
			20					25					30		
Phe	Gly	Lys	Pro	Ile	Ile	Ala	Val	Val	Asn	Ser	Phe	Thr	Gln	Phe	Val
		35					40					45			
Pro	Gly	His	Val	His	Leu	Arg	Asp	Leu	Gly	Lys	Leu	Val	Ala	Glu	Gln
	50					55					60				
Ile	Glu	Ala	Ser	Gly	Gly	Val	Ala	Lys	Glu	Phe	Asn	Thr	Ile	Ala	Val
65				70					75						80
Asp	Asp	Gly	Ile	Ala	Met	Gly	His	Gly	Gly	Met	Leu	Tyr	Ser	Leu	Pro
			85					90						95	
Ser	Arg	Glu	Leu	Ile	Ala	Asp	Ser	Val	Glu	Tyr	Met	Val	Asn	Ala	His
			100					105					110		
Cys	Ala	Asp	Ala	Met	Val	Cys	Ile	Ser	Asn	Cys	Asp	Lys	Ile	Thr	Pro
	115						120					125			
Gly	Met	Leu	Met	Ala	Ser	Leu	Arg	Leu	Asn	Ile	Pro	Val	Ile	Phe	Val
	130					135					140				
Ser	Gly	Gly	Pro	Met	Glu	Ala	Gly	Lys	Thr	Lys	Leu	Ser	Asp	Lys	Ile
145				150					155						160
Ile	Lys	Leu	Asp	Leu	Val	Asp	Ala	Met	Ile	Gln	Gly	Ala	Asp	Pro	Lys
			165						170					175	
Val	Ser	Asp	Glu	Gln	Ser	Asp	Gln	Val	Glu	Arg	Ser	Ala	Cys	Pro	Thr
		180					185						190		
Cys	Gly	Ser	Cys	Ser	Gly	Met	Phe	Thr	Ala	Asn	Ser	Met	Asn	Cys	Leu
	195						200					205			
Thr	Glu	Ala	Leu	Gly	Leu	Ser	Gln	Pro	Gly	Asn	Gly	Ser	Leu	Leu	Ala
	210					215					220				
Thr	His	Ala	Asp	Arg	Lys	Gln	Leu	Phe	Leu	Asn	Ala	Gly	Lys	Arg	Ile
225				230						235					240
Val	Glu	Leu	Thr	Lys	Arg	Tyr	Tyr	Glu	Gln	Asp	Asp	Ala	Ser	Ala	Leu
			245						250					255	
Pro	Arg	Asn	Ile	Ala	Ser	Lys	Ala	Ala	Phe	Glu	Asn	Ala	Met	Thr	Leu
		260						265					270		
Asp	Ile	Ala	Met	Gly	Gly	Ser	Thr	Asn	Thr	Val	Leu	His	Leu	Leu	Ala
	275						280					285			
Ala	Ala	Gln	Glu	Ala	Glu	Ile	Asp	Phe	Thr	Met	Ser	Asp	Ile	Asp	Lys
	290					295					300				
Leu	Ser	Arg	Lys	Val	Pro	Gln	Leu	Cys	Lys	Val	Ala	Pro	Ser	Thr	Gln

305 310 315 320
 Lys Tyr His Met Glu Asp Val His Arg Ala Gly Gly Val Ile Gly Ile
 325 330 335
 Leu Gly Glu Leu Asp Arg Ala Gly Leu Asn Arg Asp Val Lys Asn
 340 345 350
 Val Leu Gly Leu Thr Leu Pro Glu Ser Leu Glu Gln Tyr Asp Val Met
 355 360 365
 Leu Thr Lys Asp Asp Ala Val Lys Asn Met Tyr Arg Ala Gly Pro Ala
 370 375 380
 Gly Ile Arg Thr Thr Gln Ala Phe Ser Gln Asp Cys Arg Trp Asp Thr
 385 390 395 400
 Leu Asp Asp Asp Arg Ala Glu Gly Cys Ile Arg Ser Leu Glu His Ala
 405 410 415
 Tyr Ser Lys Asp Gly Gly Leu Ala Val Leu Tyr Gly Asn Phe Ala Glu
 420 425 430
 Asn Gly Cys Ile Val Lys Thr Ala Gly Val Asp Asp Ser Ile Leu Lys
 435 440 445
 Phe Thr Gly Pro Ala Lys Val Tyr Glu Ser Gln Asp Glu Ala Val Asp
 450 455 460
 Ala Ile Leu Gly Gly Lys Val Val Glu Gly Asp Val Val Val Ile Arg
 465 470 475 480
 Tyr Glu Gly Pro Lys Gly Gly Pro Gly Met Gln Glu Met Leu Tyr Pro
 485 490 495
 Thr Thr Phe Leu Lys Ser Met Gly Leu Gly Lys Ala Cys Ala Leu Ile
 500 505 510
 Thr Asp Gly Arg Phe Ser Gly Gly Thr Ser Gly Leu Ser Ile Gly His
 515 520 525
 Val Ser Pro Glu Ala Ala Ser Gly Gly Asn Ile Ala Ile Ile Glu Asp
 530 535 540
 Gly Asp Leu Ile Glu Ile Asp Ile Pro Asn Arg Gly Ile Gln Leu Lys
 545 550 555 560
 Leu Ser Asp Gln Glu Ile Ala Ala Arg Arg Glu Ala Gln Glu Ala Arg
 565 570 575
 Gly Asp Lys Ala Trp Thr Pro Lys Asp Arg Gln Arg Glu Val Ser Phe
 580 585 590
 Ala Leu Arg Ala Tyr Ala Ser Leu Ala Thr Ser Ala Asp Lys Gly Ala
 595 600 605
 Val Arg Asp Lys Ser Lys Leu Gly Gly
 610 615

<210> 8507

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 8507

Pro Gly Arg Cys Pro Ala Thr Arg Gly Val Leu Ala Pro Met Gly Ser
 1 5 10 15
 Cys Phe Leu Thr Met Cys Pro Ala Ser Leu Met Gly Cys Phe Ser Ser
 20 25 30
 Ala Arg Ala Leu Pro Ala Ile Ala Asp Ala Val Lys Gly Asp Ile Ala
 35 40 45
 Ile Leu Ala Asp Ser Gly Ile Arg Asn Gly Leu Asp Val Val Arg Met
 50 55 60
 Ile Ala Leu Gly Ala Asp Ser Val Leu Leu Gly Arg Ala Tyr Leu Tyr
 65 70 75 80
 Ala Leu Ala Thr Ser Gly Gln Ala Gly Val Ala Asn Leu Leu Asn Leu
 85 90 95
 Ile Glu Lys Glu Met Lys Val Ala Met Thr Leu Thr Gly Ala Lys Ser
 100 105 110
 Ile Ser Glu Ile Asn Lys Asp Ser Leu Val Gln Glu Leu Ser Lys Leu

115	120	125
Pro Ala Ala Leu Ala Pro Leu Ser Gln Gly Asn Ala Ala		
130	135	140

<210> 8508

<211> 476

<212> PRT

<213> Enterobacter cloacae

<400> 8508

Glu	Asn	Leu	Thr	His	Pro	Ala	Pro	Pro	Gln	Leu	Tyr	Arg	Gln	Ala	Asn
1				5					10					15	
Thr	Arg	Thr	Gln	Lys	Gln	His	His	Ile	Gly	Gly	Glu	Arg	Met	Thr	Tyr
			20					25					30		
Ser	Gly	Arg	Val	Asp	Ile	Gln	Gln	Val	Ile	Asp	Glu	Ser	Pro	Phe	Ser
		35					40					45			
Gly	Phe	His	Trp	Leu	Leu	Ile	Val	Leu	Gly	Phe	Leu	Val	Leu	Ala	Ile
	50					55					60				
Asp	Gly	Phe	Asp	Thr	Ala	Ala	Met	Gly	Tyr	Ile	Ala	Pro	Thr	Leu	Ser
65					70					75					80
Thr	Glu	Trp	Gly	Ile	His	Lys	Gln	Asp	Leu	Gly	Pro	Val	Leu	Ser	Ala
				85					90					95	
Ala	Leu	Leu	Gly	Leu	Ser	Leu	Gly	Ala	Leu	Ile	Ala	Gly	Pro	Val	Ser
			100					105					110		
Asp	Arg	Met	Gly	Arg	Lys	Arg	Val	Leu	Val	Phe	Ser	Cys	Leu	Phe	Phe
		115					120					125			
Gly	Leu	Ala	Ser	Leu	Gly	Thr	Ala	Trp	Ala	Gln	Ser	Leu	Asn	Thr	Leu
	130					135					140				
Thr	Leu	Trp	Arg	Phe	Leu	Thr	Gly	Leu	Gly	Leu	Gly	Ala	Ala	Met	Pro
145					150					155					160
Asn	Ala	Ile	Thr	Leu	Ile	Ser	Glu	Phe	Ala	Pro	Gln	Arg	Cys	Arg	Ala
				165					170					175	
Met	Ala	Ile	Asn	Thr	Met	Tyr	Cys	Gly	Phe	Pro	Leu	Gly	Ala	Ala	Gly
			180					185					190		
Gly	Gly	Ala	Ile	Ser	Ser	Trp	Leu	Ile	Pro	His	His	Gly	Trp	Arg	Ser
		195					200					205			
Val	Leu	Leu	Thr	Gly	Ala	Ile	Ala	Pro	Leu	Ile	Leu	Thr	Val	Leu	Leu
	210					215						220			
Ala	Leu	Leu	Leu	Pro	Glu	Ser	Val	Lys	Phe	Leu	Val	Gln	Arg	Gly	Lys
225					230					235					240
Asp	Ile	Ala	Gln	Val	Arg	Arg	Ile	Ala	Ser	Arg	Phe	Ala	Arg	Ser	Thr
				245					250					255	
Leu	Asp	Ser	Val	Thr	Gly	Phe	Phe	Leu	Thr	Glu	Glu	Lys	Val	Ala	Ser
			260					265					270		
Lys	Lys	Gly	Ser	Val	Ser	Gln	Leu	Phe	Ser	Met	Pro	Trp	Leu	Pro	Gly
		275					280					285			
Thr	Leu	Met	Leu	Trp	Val	Thr	Tyr	Phe	Met	Gly	Leu	Val	Ile	Tyr	Tyr
	290					295					300				
Val	Leu	Leu	Ser	Trp	Met	Pro	Thr	Leu	Met	Gln	Gly	Met	Gly	Tyr	Ala
305					310					315					320
Leu	Ala	Glu	Ser	Ala	Trp	Leu	Thr	Ser	Leu	Phe	Thr	Phe	Gly	Gly	Thr
				325					330					335	
Ala	Gly	Ile	Leu	Leu	Ala	Gly	Trp	Met	Met	Asp	Arg	Trp	Glu	Ala	His
				340					345				350		
Lys	Val	Val	Ala	Cys	Gly	Phe	Val	Leu	Thr	Met	Gly	Leu	Ile	Leu	Leu
		355					360					365			
Leu	Gly	Ile	Glu	His	Asn	His	Ile	Ala	Leu	Phe	Gly	Gly	Leu	Ile	Phe
	370					375					380				
Leu	Met	Gly	Ile	Ala	Met	Asn	Gly	Ala	Gln	Ser	Gly	Met	Gln	Thr	Leu
385					390					395					400
Ala	Ala	Thr	Phe	Tyr	Pro	Thr	Glu	Cys	Arg	Ala	Thr	Gly	Ile	Ala	Trp

				405					410					415			
Met	Gln	Gly	Ile	Gly	Arg	Phe	Gly	Gly	Val	Ala	Gly	Thr	Met	Thr	Ser		
			420					425					430				
Ala	Gln	Leu	Leu	Ser	Met	Gln	Trp	Gln	Ala	Asp	Ser	Ile	Leu	Met	Ile		
		435					440					445					
Leu	Ser	Val	Pro	Ala	Leu	Val	Ala	Ala	Ala	Ala	Thr	Val	Tyr	Lys	Met		
	450					455					460						
Leu	Tyr	Ser	Arg	Ala	Gln	Glu	Pro	Gly	Val	Ala							
465					470					475							

<210> 8509

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 8509

Gly	Gly	Ser	Met	Leu	Asn	Ile	Val	Leu	Phe	Glu	Pro	Glu	Ile	Pro	Pro		
1				5				10					15				
Asn	Thr	Gly	Asn	Ile	Ile	Arg	Leu	Cys	Ala	Asn	Thr	Gly	Phe	Arg	Leu		
		20						25					30				
His	Ile	Ile	Glu	Pro	Met	Gly	Phe	Thr	Trp	Asp	Asp	Lys	Arg	Leu	Arg		
	35					40						45					
Arg	Ala	Gly	Leu	Asp	Tyr	His	Glu	Phe	Thr	Ala	Val	Val	Arg	His	His		
	50					55					60						
Asp	Tyr	Ala	Ala	Phe	Leu	Asp	Ala	Glu	Lys	Pro	Gln	Arg	Met	Phe	Ala		
65				70				75						80			
Leu	Thr	Thr	Lys	Gly	Thr	Pro	Ala	His	Ser	Ala	Val	Ser	Tyr	Gln	Asp		
			85					90					95				
Gly	Asp	Tyr	Leu	Met	Phe	Gly	Pro	Glu	Thr	Arg	Gly	Leu	Pro	Ala	Thr		
	100							105					110				
Ile	Leu	Asp	Ala	Leu	Pro	Ala	Glu	Gln	Lys	Ile	Arg	Ile	Pro	Met	Met		
	115						120					125					
Pro	Asp	Ser	Arg	Ser	Met	Asn	Leu	Ser	Asn	Ala	Val	Ser	Val	Val	Val		
	130					135					140						
Tyr	Glu	Ala	Trp	Arg	Gln	Leu	Gly	Tyr	Pro	Gly	Ala	Ile	Leu	Arg	Ser		
145					150					155					160		

<210> 8510

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 8510

Ile	Ile	Thr	Thr	Asn	Asn	Phe	Ala	Glu	Lys	Asp	Val	Asp	Thr	Glu	Leu		
1				5				10					15				
Leu	Lys	Thr	Phe	Leu	Glu	Val	Ser	Arg	Thr	Arg	His	Phe	Gly	Arg	Ala		
		20						25					30				
Ala	Glu	Ala	Leu	Tyr	Leu	Thr	Gln	Ser	Ala	Val	Ser	Phe	Arg	Ile	Arg		
	35					40						45					
Gln	Leu	Glu	Asn	Gln	Leu	Gly	Val	Asn	Leu	Phe	Thr	Arg	His	Arg	Asn		
	50					55					60						
Asn	Ile	Arg	Leu	Thr	Pro	Ala	Gly	Glu	Lys	Leu	Leu	Pro	Tyr	Ala	Glu		
65				70				75						80			
Thr	Leu	Met	Asn	Thr	Trp	Gln	Ala	Ala	Arg	Lys	Glu	Val	Ala	His	Thr		
			85					90					95				
Ser	Arg	His	Asn	Glu	Phe	Ser	Ile	Gly	Ala	Ser	Ala	Ser	Leu	Trp	Glu		
	100							105					110				
Cys	Met	Leu	Ser	Gln	Trp	Leu	Met	Arg	Leu	Tyr	Arg	Ser	His	Asn	His		
	115						120					125					

Leu Gln Phe Glu Ala Arg Ile Ala Gln Arg Gln Ser Leu Val Lys Gln
 130 135 140
 Leu His Glu Arg Gln Leu Asp Leu Leu Ile Thr Thr Glu Ala Pro Lys
 145 150 155 160
 Met Asp Glu Phe Ser Ser Gln Ile Val Gly Gln Phe Ser Leu Ala Leu
 165 170 175
 Tyr Ala Ser Glu Pro Ala Met Met Lys Ala Asp Leu Asn Tyr Leu Arg
 180 185 190
 Leu Glu Trp Gly Pro Asp Phe Gln Gln His Glu Thr Gly Leu Ile Ala
 195 200 205
 Ser Asp Asp Ile Pro Gln Leu Thr Thr Ser Ser Ala Glu Ile Ala Cys
 210 215 220
 Gln His Leu Pro Ala Leu Lys Gly Cys Thr Trp Leu Pro Val Arg Trp
 225 230 235 240
 Ala Asp Asn Lys Pro Ala Leu His Val Val Thr Asp Ser Thr Thr Leu
 245 250 255
 Ser Arg Pro Leu Tyr Ala Ile Trp Leu Gln Asn Ser Asp Lys Gln Ser
 260 265 270
 Gln Ile Lys Asp Leu Leu Lys Thr Ser Ile Leu Asp
 275 280 285

<210> 8511

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 8511

Lys Glu Gly Val Glu Ser Val Asp Leu Arg Asp Leu Lys Met Phe Leu
 1 5 10 15
 His Leu Ala Glu Ser Arg His Phe Gly Arg Ser Ala Arg Ala Met His
 20 25 30
 Val Ser Pro Ser Thr Leu Ser Arg Gln Ile Gln Arg Leu Glu Glu Asp
 35 40 45
 Leu Gly Gln Pro Leu Phe Val Arg Asp Asn Arg Thr Val Thr Leu Thr
 50 55 60
 Glu Ala Gly Glu Glu Leu Arg Ile Phe Ala Gln Gln Thr Leu Leu Gln
 65 70 75 80
 Tyr Gln Gln Leu Arg His Thr Ile Asp Gln Gln Gly Pro Ser Leu Ser
 85 90 95
 Gly Glu Leu His Ile Phe Cys Ser Val Thr Ala Ala Tyr Ser His Leu
 100 105 110
 Pro Pro Ile Leu Asp Arg Phe Arg Ala Glu His Pro Ser Val Glu Ile
 115 120 125
 Lys Leu Thr Thr Gly Asp Ala Ala Asp Ala Met Glu Lys Val Val Thr
 130 135 140
 Gly Glu Ala Asp Leu Ala Ile Ala Gly Lys Pro Glu Thr Leu Pro Gly
 145 150 155 160
 Ala Val Ala Phe Ser Met Leu Glu Asn Leu Ala Val Val Leu Ile Ala
 165 170 175
 Pro Ala Leu Pro Cys Pro Val Arg Asn Gln Val Ser Val Glu Lys Pro
 180 185 190
 Asp Trp Ser Thr Val Pro Phe Ile Met Ala Asp Gln Gly Pro Val Arg
 195 200 205
 Arg Arg Ile Glu Leu Trp Phe Arg Arg Gln Lys Ile Ser Asn Pro Ser
 210 215 220
 Ile Tyr Ala Thr Val Gly Gly His Glu Ala Met Val Ser Met Val Ala
 225 230 235 240
 Leu Gly Cys Gly Val Ala Leu Leu Pro Glu Val Val Leu Glu Asn Ser
 245 250 255
 Pro Glu Pro Val Arg Asn Arg Val Met Ile Leu Glu Arg Ser Asp Glu
 260 265 270

Lys Thr Pro Phe Glu Leu Gly Val Cys Ala Gln Lys Lys Arg Leu His
 275 280 285
 Glu Pro Leu Ile Asp Ala Phe Trp Thr Ile Leu Pro Asn His
 290 295 300

<210> 8512

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 8512

Leu Lys Arg Pro Trp Ser Asp Ile Arg Glu Leu Met Gly Arg Pro Gly
 1 5 10 15
 Cys Asp Ser Lys Asp Thr Leu Thr Arg Lys Met Pro Arg Asp Ala Trp
 20 25 30
 Arg Phe Gly Ala Asp Gly Ile Val Phe Ser Asn His Val Pro Arg Gln
 35 40 45
 Leu Asp Gly Val Phe Phe Leu Arg Pro Arg Pro Ala Gly His Cys Arg
 50 55 60
 Cys Gly Glu Arg Arg Tyr Cys Asp Pro Gly Arg
 65 70 75

<210> 8513

<211> 517

<212> PRT

<213> Enterobacter cloacae

<400> 8513

Cys Trp His Ser His Arg Gln Gly Gly Leu Met Ser Leu Ser Val Val
 1 5 10 15
 Tyr Thr Arg Ala Ala Ile Gly Val Lys Ala Pro Leu Ile Ser Val Glu
 20 25 30
 Val His Leu Ser Asn Gly Leu Pro Gly Leu Thr Leu Val Gly Leu Pro
 35 40 45
 Glu Thr Thr Val Lys Glu Ala Arg Asp Arg Val Arg Ser Ala Ile Ile
 50 55 60
 Asn Ser Gly Tyr Ala Phe Pro Ala Lys Lys Ile Thr Ile Asn Leu Ala
 65 70 75 80
 Pro Ala Asp Leu Pro Lys Glu Gly Gly Arg Tyr Asp Leu Pro Ile Ala
 85 90 95
 Ile Ala Leu Leu Ala Ala Ser Glu Gln Leu Asn Thr Pro Gly Leu Ser
 100 105 110
 Ser Cys Glu Phe Val Gly Glu Leu Ala Leu Thr Gly Ala Leu Arg Gly
 115 120 125
 Val Pro Gly Ala Ile Ser Gly Ala Leu Glu Ala Ile Arg Ala Gly Arg
 130 135 140
 Gln Ile Ile Val Ala Asn Glu Asn Ala Ser Glu Val Ser Leu Ile Ala
 145 150 155 160
 Glu Lys Gly Cys Leu Val Ala Gly His Leu Gln Glu Val Cys Ala Trp
 165 170 175
 Leu Glu Gly Arg His Glu Leu Ala Glu Pro Gln Glu Asn Asp Glu Val
 180 185 190
 Ala Pro Asp Ser Pro Glu Asp Leu Ser Asp Ile Met Gly Gln Glu Gln
 195 200 205
 Gly Lys Arg Ala Leu Glu Ile Thr Ala Ala Gly Gly His Asn Leu Leu
 210 215 220
 Leu Ile Gly Pro Pro Gly Thr Gly Lys Thr Met Leu Ala Ser Arg Leu
 225 230 235 240
 Ser Gly Leu Leu Pro Pro Leu Asn Asn His Glu Ala Leu Glu Ser Ala
 245 250 255
 Ala Ile Phe Ser Leu Val Ser Ser Thr Ser Leu His Lys Gln Trp Arg

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<210> 8514
<211> 63
<212> PRT
<213> Enterobacter cloacae
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<210> 8515
<211> 496
<212> PRT
<213> Enterobacter cloacae
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<400> 8515																
Gln	Leu	Ala	Lys	Ser	Ser	Leu	Phe	Leu	Leu	Leu	Ile	Tyr	Thr	Val	Ser	
1				5					10					15		
Asn	Lys	Glu	Asn	Leu	Met	Lys	Lys	Tyr	Gln	Arg	Leu	Ala	Gln	Gln	Ile	
			20					25					30			
Ile	Ser	Gln	Ile	Glu	Leu	Gly	Val	Trp	Leu	Pro	Gly	Asp	Lys	Leu	Pro	
		35					40					45				

Ser Leu Arg Glu Gln Val Ala Gly Ser Gly Met Ser Phe Met Thr Val
 50 55 60
 Gly His Ala Tyr Gln Met Leu Glu Ser Gln Gly Arg Ile Val Ala Arg
 65 70 75 80
 Pro Gln Ser Gly Tyr Tyr Val Ala Ala Arg Pro Thr Thr His Gln Pro
 85 90 95
 Ala Pro Pro Ala Gln Val Met Arg Asp Glu Val Val Asp Ile Asn Thr
 100 105 110
 Tyr Ile Phe Asp Val Leu Gln Ala Ser Arg Asp Pro Ser Val Val Pro
 115 120 125
 Phe Ala Ser Ala Phe Pro Asp Pro Arg Leu Phe Pro Leu Gln Gln Leu
 130 135 140
 Asn Arg Ser Leu Ala Asn Val Ser Lys Thr Ala Thr Ala Met Ser Val
 145 150 155 160
 Ile Glu Asn Leu Pro Pro Gly Asn Val Asp Leu Arg His Ala Ile Ala
 165 170 175
 Arg Arg Tyr Ala Gln Gln Gly Met Asn Ile Ser Pro Asp Glu Ile Val
 180 185 190
 Ile Thr Ala Gly Ala Leu Glu Ala Leu Asn Leu Ser Leu Gln Ala Val
 195 200 205
 Thr Glu Pro Gly Asp Trp Val Ile Val Glu Asn Pro Cys Phe Tyr Gly
 210 215 220
 Ala Leu Gln Ala Leu Glu Arg Leu Lys Leu Lys Ala Leu Ser Val Ala
 225 230 235 240
 Thr Asp Val Arg Glu Gly Ile Asp Leu Ser Ala Leu Glu Gln Ala Leu
 245 250 255
 Asn Asp Tyr Pro Val Lys Ala Cys Trp Leu Met Thr Asn Ser Gln Asn
 260 265 270
 Pro Leu Gly Phe Thr Leu Ser Ala Glu Lys Lys Ala Gln Leu Val Ala
 275 280 285
 Leu Leu Thr Arg His Asn Val Thr Leu Ile Glu Asp Asp Val Tyr Ser
 290 295 300
 Glu Leu Tyr Phe Gly Arg Glu Lys Pro Leu Pro Ala Lys Ala Trp Asp
 305 310 315 320
 Lys Gln Asp Met Thr Leu His Cys Ser Ser Phe Ser Lys Cys Leu Val
 325 330 335
 Ala Gly Phe Arg Ile Gly Trp Val Thr Ala Gly Lys His Ala Arg Arg
 340 345 350
 Ile Gln Gln Leu Gln Leu Met Ser Thr Leu Ser Thr Ser Ser Pro Met
 355 360 365
 Gln Leu Ala Leu Val Asp Tyr Leu Ala Thr Lys Arg Tyr Asp Ala His
 370 375 380
 Leu Arg Arg Leu Arg Arg Thr Leu Ala Glu Arg Lys Gln Gln Ala Trp
 385 390 395 400
 Gln Ser Leu Leu Arg His Met Pro Ala Gly Val Lys Ile His His Asn
 405 410 415
 Asp Ser Gly Tyr Phe Leu Trp Leu Glu Leu Pro Glu Gln Leu Asp Ala
 420 425 430
 Gly Arg Leu Ser Glu Lys Ala Leu Ile His Gln Ile Ser Ile Ala Pro
 435 440 445
 Gly Lys Met Phe Ser Thr Ser Asn Ile Trp Thr Pro Phe Phe Arg Phe
 450 455 460
 Asn Thr Ser Trp Gly Trp Gly Glu Arg Glu Glu Gln Ala Val Val Gln
 465 470 475 480
 Leu Ala Gly Leu Ile Arg Glu Met Met Leu His Pro Val Thr Pro
 485 490 495

<210> 8516

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 8516

Tyr	Leu	Ser	Gly	Tyr	Asp	Val	Thr	Lys	Lys	Leu	Asp	Leu	Cys	Gln	His
1				5					10					15	
Met	Thr	His	Ile	Ala	Cys	Gly	Tyr	Phe	Ser	Ala	Gln	Val	Asn	Arg	Met
			20					25					30		
Thr	Leu	Tyr	Gln	Lys	Met	Leu	Val	Phe	Tyr	Ala	Ile	Met	Ala	Ser	Ile
			35					40				45			
Cys	Ala	Leu	Ile	Thr	Trp	Phe	Leu	Ser	Lys	Asp	Arg	Lys	Arg	Ile	Arg
			50			55				60					
Leu	Leu	Ser	Ala	Phe	Leu	Val	Gly	Ser	Thr	Trp	Pro	Met	Ser	Phe	Pro
65					70					75					80
Val	Ala	Leu	Leu	Ile	Ser	Leu	Phe								
				85											

<210> 8517

<211> 278

<212> PRT

<213> Enterobacter cloacae

<400> 8517

Leu	Pro	Cys	Gln	Leu	Val	Lys	Arg	Gly	Asp	His	Gln	Gln	Gln	Pro	Leu
1				5					10					15	
Arg	Arg	Arg	Lys	Arg	Gly	Arg	Gln	Gly	Thr	Gly	Leu	Gln	Arg	Thr	Met
			20					25					30		
Tyr	Gly	Gly	Asn	Gly	Pro	Gly	Phe	Gly	Leu	His	Leu	Asn	Asn	Pro	Arg
			35				40					45			
Asp	Ile	Ala	Pro	Asp	Val	Phe	Tyr	Pro	Ile	Thr	Ser	Pro	Gly	Val	Ser
			50			55				60					
Leu	Phe	Ser	His	Arg	Gly	Ala	Gly	Ser	Asp	Gly	Val	Asp	Gly	Asp	His
65				70					75						80
Phe	Ala	Gly	Thr	Lys	Arg	Asn	Arg	Arg	Asp	Cys	Thr	Ile	Ala	Val	Asn
				85					90					95	
Ser	Leu	His	Arg	Thr	Thr	Pro	Leu	His	Cys	Ala	Lys	Arg	Gly	Val	Cys
			100					105					110		
Lys	Thr	Thr	Thr	Asp	Pro	Glu	Tyr	Tyr	Leu	Cys	Ile	Leu	Ala	Lys	Leu
			115				120					125			
Arg	Phe	Tyr	Asp	Phe	Arg	Phe	Cys	Val	Leu	Gly	Met	Arg	Cys	Ile	Asn
			130			135					140				
Asp	Ser	Lys	Ala	Ile	Arg	Val	Lys	Lys	Leu	Arg	Glu	Ile	Val	Thr	Arg
145				150					155						160
Ala	His	Asn	Tyr	Ala	His	Pro	Leu	Ser	Thr	Met	Arg	Arg	Val	Met	Pro
				165					170					175	
Ile	Met	His	Arg	Phe	Arg	Val	Asn	Tyr	Gly	Glu	Glu	Gly	Met	Arg	Ser
			180				185						190		
Ala	Phe	Trp	Val	Gly	Cys	Ala	Ala	Leu	Leu	Leu	Ser	Ala	Cys	Ser	Asn
			195				200					205			
Glu	Pro	Val	Gln	Gln	Ala	Thr	Ala	Ala	His	Val	Thr	Pro	Gly	Met	Arg
			210			215					220				
Ala	Ala	Met	Ser	Ser	Ser	Gly	Gln	Ala	Asn	Cys	Ala	Met	Ile	Gly	Gly
225				230					235					240	
Ser	Leu	Ser	Val	Ala	Arg	Gln	Leu	Asp	Gly	Ser	Ala	Ile	Gly	Met	Cys
				245					250					255	
Ala	Leu	Pro	Asn	Gly	Lys	Arg	Cys	Ser	Glu	Gln	Ser	Leu	Ala	Val	Gly
			260					265					270		
Ser	Cys	Gly	Ser	Tyr											
			275												

<210> 8518

<211> 487

<212> PRT

<213> Enterobacter cloacae

<400> 8518

Gln	Arg	Lys	Gln	Cys	Arg	Phe	Gln	Gln	Asp	Asn	Ala	Met	Gln	Asn	Gln
1				5					10					15	
Leu	Leu	Ile	Asn	Gly	Glu	Leu	Val	Ala	Gly	Glu	Gly	Glu	Lys	Gln	Ala
			20					25					30		
Val	Tyr	Asn	Pro	Ala	Thr	Gly	Asp	Val	Leu	Leu	Glu	Ile	Ala	Glu	Ala
		35					40					45			
Ser	Glu	Ala	Gln	Val	Asp	Ala	Ala	Val	Gln	Ala	Ala	Asp	Arg	Ala	Phe
	50					55					60				
Thr	Glu	Trp	Gly	Gln	Thr	Thr	Pro	Lys	Thr	Arg	Ala	Glu	Cys	Leu	Leu
65					70					75					80
Lys	Leu	Ala	Asp	Val	Ile	Glu	Ala	Asn	Ala	Asp	Ala	Phe	Ala	Asn	Leu
				85				90						95	
Glu	Ser	Leu	Asn	Cys	Gly	Lys	Pro	Leu	His	Cys	Val	Gln	Gly	Asp	Glu
			100					105					110		
Ile	Pro	Ala	Val	Val	Asp	Val	Phe	Arg	Phe	Phe	Ala	Gly	Ala	Ala	Arg
		115					120					125			
Cys	Leu	Asn	Gly	Leu	Ala	Ala	Gly	Glu	Tyr	Leu	Glu	Gly	His	Thr	Ser
	130					135					140				
Met	Ile	Arg	Arg	Asp	Pro	Val	Gly	Val	Val	Ala	Ser	Ile	Ala	Pro	Trp
145					150					155					160
Asn	Tyr	Pro	Leu	Met	Met	Ala	Ala	Trp	Lys	Leu	Ala	Pro	Ala	Leu	Ala
				165					170					175	
Ala	Gly	Asn	Cys	Val	Val	Ile	Lys	Pro	Ser	Glu	Ile	Thr	Pro	Leu	Thr
			180					185					190		
Ala	Leu	Lys	Leu	Ala	Glu	Leu	Ala	Lys	Asp	Ile	Phe	Pro	Pro	Gly	Val
		195					200					205			
Leu	Asn	Val	Leu	Phe	Gly	Arg	Gly	Lys	Thr	Val	Gly	Asp	Pro	Leu	Thr
	210					215					220				
Gly	His	Glu	Lys	Val	Arg	Met	Val	Ser	Leu	Thr	Gly	Ser	Ile	Ala	Thr
225					230					235					240
Gly	Glu	His	Ile	Ile	Gly	His	Thr	Ala	Ser	Ser	Val	Lys	Arg	Thr	His
				245					250					255	
Met	Glu	Leu	Gly	Gly	Lys	Ala	Pro	Val	Ile	Val	Phe	Asp	Asp	Ala	Asp
			260					265					270		
Leu	Asp	Ala	Val	Val	Glu	Gly	Val	Arg	Thr	Phe	Gly	Phe	Tyr	Asn	Ala
	275						280					285			
Gly	Gln	Asp	Cys	Thr	Ala	Ala	Cys	Arg	Ile	Tyr	Ala	Gln	Lys	Gly	Ile
	290					295					300				
Tyr	Pro	Ala	Leu	Val	Glu	Lys	Leu	Gly	Ala	Ala	Val	Ala	Ser	Leu	Lys
305					310					315					320
Met	Gly	Ala	Pro	Asp	Asp	Ala	Ser	Thr	Glu	Leu	Gly	Pro	Leu	Ser	Ser
				325					330					335	
Ala	Ala	His	Leu	Ser	Arg	Val	Cys	Ala	Ala	Val	Asp	Glu	Ala	Lys	Thr
			340					345					350		
Leu	Gly	His	Ile	Arg	Val	Val	Thr	Gly	Gly	Ser	Lys	Lys	Glu	Gly	Ala
		355					360					365			
Gly	Tyr	Tyr	Phe	Gln	Pro	Thr	Leu	Leu	Ala	Gly	Ala	Lys	Gln	Glu	Asp
	370					375					380				
Ala	Ile	Val	Gln	Arg	Glu	Val	Phe	Gly	Pro	Val	Val	Ser	Val	Thr	Glu
385					390					395					400
Phe	Glu	Asp	Glu	Ala	Gln	Val	Leu	Asn	Trp	Ala	Asn	Asp	Ser	Gln	Tyr
				405					410					415	
Gly	Leu	Ala	Ser	Ser	Val	Trp	Thr	Lys	Asp	Val	Gly	Arg	Ala	His	Arg
			420					425					430		
Leu	Ser	Ala	Arg	Leu	Gln	Tyr	Gly	Cys	Thr	Trp	Val	Asn	Thr	His	Phe
		435					440					445			
Met	Leu	Val	Ser	Glu	Met	Pro	His	Gly	Gly	Met	Lys	Leu	Ser	Gly	Tyr
	450					455					460				

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Gly Lys Asp Met Ser Val Tyr Gly Leu Glu Asp Tyr Thr Val Val Arg
 465 470 475 480,
 His Val Met Phe Lys His
 485

<210> 8519
 <211> 81
 <212> PRT
 <213> Enterobacter cloacae

<400> 8519
 Gly Val Thr Met Ser His Leu Asn Lys Val Ile Ala Arg Val Asp Ala
 1 5 10 15
 Thr Ile Glu Glu Ser Val Ile Thr His Met Asn Glu Leu Leu Ile Glu
 20 25 30
 Leu Ser Asp Asp Ala Glu Leu Ser Arg Glu Asp Arg Tyr Thr Gln Gln
 35 40 45
 Gln Arg Leu Arg Thr Ala Ile Ala His His Gly Lys Gln His Lys Glu
 50 55 60
 Glu Ala Glu Ala Arg His Ala His Leu Thr Gln Gly Gly Thr Ile Leu
 65 70 75 80

<210> 8520
 <211> 195
 <212> PRT
 <213> Enterobacter cloacae

<400> 8520
 Tyr Asp Val Met Asn Thr Met Thr Asp Asn Met Asn Gln Arg Ile Ser
 1 5 10 15
 Ala Arg Ile Arg Leu Glu Arg Glu Ser Arg Gly Trp Ser Leu Ser Glu
 20 25 30
 Leu Ala Glu Arg Ala Gly Ile Ser Arg Ala Met Ile His Lys Ile Glu
 35 40 45
 Arg Gly Asp Ser Ser Pro Thr Ala Thr Leu Leu Ala Arg Leu Ser Gly
 50 55 60
 Ala Phe Gly Ile Ser Met Ser Thr Leu Ile Ala Arg Ala Glu Met Gln
 65 70 75 80
 Glu Gly Lys Leu Leu Arg Leu Ala Asn Gln Pro Val Trp Arg Asp Pro
 85 90 95
 Gln Thr His Tyr Leu Arg Arg His Val Ser Pro Arg Thr Asp Met Pro
 100 105 110
 Ile Asp Leu Val Gln Val Glu Leu Pro Ala Gly Ser Asp Val Pro Met
 115 120 125
 Pro Ala Ser Ser Tyr Ala Leu Ala Arg Gln Leu Ile Trp Leu Gln Ala
 130 135 140
 Gly Glu Leu Val Phe Leu Glu Gly Asp Thr Arg His Glu Met Lys Ala
 145 150 155 160
 Gly Asp Cys Leu Glu Leu Gly Pro Pro Asn Asp Cys Arg Phe Ile Asn
 165 170 175
 Glu Thr Asp Glu Ser Cys Leu Tyr Leu Val Val Arg Leu Asn Gln Ser
 180 185 190
 Gly Ser
 195

<210> 8521
 <211> 367
 <212> PRT
 <213> Enterobacter cloacae

<400> 8521

Cys Lys Gly Asp Pro Gln Asp Asn Val Pro Asp Leu Asn Asp Ile Phe
 1 5 10 15
 Ser Ser Lys Glu Arg Arg Met Asn Gln Ser Thr Thr Gln Asn Arg Arg
 20 25 30
 Trp Val Leu Ala Ser Arg Pro His Gly Ala Pro Val Ala Glu Asn Phe
 35 40 45
 Arg Leu Glu Glu Gln Pro Ile Pro Thr Pro Ala Glu Gly Gln Val Leu
 50 55 60
 Leu Arg Thr Val Trp Leu Ser Leu Asp Pro Tyr Met Arg Gly Arg Met
 65 70 75 80
 Ser Asp Ala Pro Ser Tyr Ser Pro Pro Val Glu Ile Gly Ala Val Met
 85 90 95
 Val Gly Gly Thr Val Ser Arg Val Glu Thr Ser Arg His Pro Asp Tyr
 100 105 110
 Lys Glu Gly Glu Trp Val Leu Gly Tyr Ser Gly Trp Gln Glu Tyr Glu
 115 120 125
 Leu Ser Asp Gly Gln Gly Leu Val Lys Leu Gly Glu Asn Pro Ser His
 130 135 140
 Pro Ser Trp Ala Leu Gly Val Leu Gly Met Pro Gly Phe Thr Ala Tyr
 145 150 155 160
 Met Gly Leu Leu Asp Ile Gly Gln Pro Gln Ala Gly Glu Thr Leu Val
 165 170 175
 Val Ala Ala Ala Thr Gly Pro Val Gly Ala Thr Val Gly Gln Ile Gly
 180 185 190
 Lys Ile Lys Gly Cys Arg Val Ile Gly Val Ala Gly Gly Glu Glu Lys
 195 200 205
 Cys Arg His Ala Val Asp Val Leu Gly Phe Asp Ala Cys Leu Asp His
 210 215 220
 His Ala Asp Asp Phe Ala Glu Gln Leu Ala Lys Ala Cys Pro Gln Gly
 225 230 235 240
 Ile Asp Val Tyr Tyr Glu Asn Val Gly Gly Lys Val Phe Asp Ala Val
 245 250 255
 Leu Pro Leu Leu Asn Thr Ser Ala Arg Val Pro Val Cys Gly Leu Val
 260 265 270
 Ser Gly Tyr Asn Ala Thr Asn Leu Pro Glu Gly Pro Asp Arg Leu Pro
 275 280 285
 Leu Leu Met Gly Thr Ile Leu Lys Lys Arg Ile Arg Met Gln Gly Phe
 290 295 300
 Ile Ile Ala Gln Asp Tyr Gly His Arg Ile Val Glu Phe Gln Gln Glu
 305 310 315 320
 Met Gly Arg Trp Val Lys Glu Gly Lys Ile His Tyr Arg Glu Gln Val
 325 330 335
 Thr Glu Gly Leu Asn Ala Ala Pro Glu Ala Leu Ile Gly Leu Leu Glu
 340 345 350
 Gly Lys Asn Phe Gly Lys Val Val Ile Arg Val Ala Ala Asp
 355 360 365

<210> 8522

<211> 266

<212> PRT

<213> Enterobacter cloacae

<400> 8522

Gly Cys Ile Asn Ile Gln Ser Val Ile His Gly Val Leu Met Asn Ser
 1 5 10 15
 Phe Tyr Ser Gln Gln Ala Gly Cys Thr Val Arg Trp Gln Asp Leu Pro
 20 25 30
 Gly Phe Gly Asp Pro Val Val Phe Ile His Gly Leu Gly Cys Ala Ser
 35 40 45

Ser Tyr Glu Tyr Pro Arg Ile Val Cys Asp Thr Arg Phe Gly Gly Arg
 50 55 60
 Arg Ala Ile Leu Ile Asp Leu Pro Gly Ser Gly Tyr Ser Asp Lys Pro
 65 70 75 80
 Asp Asn Tyr Arg Tyr Arg Thr Ser Glu Gln Ala Gln Val Val Val Glu
 85 90 95
 Leu Leu Asn His Leu Gly Leu Asp Ser Leu Trp Leu Tyr Gly His Ser
 100 105 110
 Met Gly Gly Ser Ile Ala Ile Glu Thr Ala Thr Leu Leu Thr Ser Arg
 115 120 125
 Val Lys Gly Leu Ile Val Ser Glu Pro Asn Phe His Ala Gly Gly Gly
 130 135 140
 Met Phe Ser Arg Ala Ile Ala Ala Gln Thr Glu Gln His Phe Leu Ala
 145 150 155 160
 Gln Gly Tyr Asp Asp Met Leu Arg Ala Glu Thr Ser Pro Trp Ala Gly
 165 170 175
 Ser Leu Gln Ser Asn Ala Pro Trp Ala Val Trp Arg Gly Ala Thr Ser
 180 185 190
 Leu Val Glu Gly Val Lys Pro Asp Trp Glu His Leu Phe Leu Ser Leu
 195 200 205
 Arg Cys Pro Val Met Leu Val Phe Gly Glu Arg Ser Leu Pro Asp Asp
 210 215 220
 Asp Phe Asn Arg Leu Gln Gln Asn Gly Val Ala Val Lys Ile Ile Pro
 225 230 235 240
 Asp Ala Gly His Ser Met Ser Trp Glu Asn Pro Ser Ala Leu Ala Gln
 245 250 255
 Ala Leu Ser Gly Phe Ile Asn Gly Ser
 260 265

<210> 8523

<211> 563

<212> PRT

<213> Enterobacter cloacae

<400> 8523

Asn Asn Leu Ile Val Ile Arg Tyr Leu Ser Gly Gln Tyr Val Cys Ala
 1 5 10 15
 Val Ile Thr Val His Tyr Asn Lys Thr Glu Arg Val Ile Thr Met Ser
 20 25 30
 Thr Gly Lys Thr Val Leu Ala Leu Ala Leu Ser Ala Leu Leu Pro Ala
 35 40 45
 Ser Ala Ala Trp Ala Ala Asn Lys Asp Thr Ile Ile Tyr Cys Ser Glu
 50 55 60
 Ala Ser Pro Glu Ser Phe Asn Pro Gln Ile Ala Ser Ser Gly Pro Ser
 65 70 75 80
 Phe Val Ala Ser Ser Gln Thr Leu Tyr Asn Arg Leu Ile Asn Phe Asp
 85 90 95
 Pro Val Lys Asn Thr Pro Val Pro Ser Leu Ala Glu Ser Trp Thr Ile
 100 105 110
 Ser Pro Asp Gly Lys Thr Tyr Thr Phe Thr Leu Arg Lys Gly Val Lys
 115 120 125
 Phe Asn Ser Asn Lys Tyr Phe Lys Pro Thr Arg Asp Phe Asn Ala Asp
 130 135 140
 Asp Val Ile Phe Ser Val Met Arg Gln Lys Asp Pro Lys His Pro Tyr
 145 150 155 160
 His Asn Val Ser Gln Gly Asn Tyr Glu Tyr Phe Asn Asp Val Gly Leu
 165 170 175
 Asp Lys Leu Ile Gln Asp Val Lys Lys Ile Asp Asp Tyr His Val Gln
 180 185 190
 Phe Thr Leu Ser Glu Pro Asn Ala Ala Phe Leu Ala Asp Trp Gly Met
 195 200 205

Asp Phe Ala Ser Ile Leu Ser Ala Glu Tyr Ala Asp Ala Met Leu Lys
 210 215 220
 Lys Gly Thr Pro Glu Asn Val Asp Thr Trp Pro Ile Gly Thr Gly Pro
 225 230 235 240
 Tyr Val Leu Gln Gln Tyr Lys Val Asp Ser Leu Ile Arg Tyr Val Ala
 245 250 255
 Asn Pro Asn Tyr Trp Asp Gly Glu Val Pro Thr Lys His Leu Ile Phe
 260 265 270
 Ser Ile Thr Pro Asn Val Glu Thr Arg Leu Ala Lys Leu Gln Thr Asn
 275 280 285
 Glu Cys Gln Ile Ile Pro Ala Pro Ser Pro Val Gln Phe Glu Ala Ile
 290 295 300
 Lys Lys Asn Lys Asp Leu Thr Leu His Ser Val Asp Ala Leu Asn Val
 305 310 315 320
 Gly Tyr Leu Ala Phe Asn Thr Glu Lys Lys Pro Phe Asp Asn Val Leu
 325 330 335
 Val Arg Gln Ala Leu Asn Tyr Ala Thr Asp Lys Lys Ala Ile Val Asn
 340 345 350
 Ala Val Phe Met Gly Ser Gly Thr Val Ala Lys Ser Pro Ile Pro Pro
 355 360 365
 Asn Met Leu Gly Phe Asn Asn Asp Leu Lys Asp Tyr Gly Tyr Asp Pro
 370 375 380
 Glu Lys Ala Lys Ala Leu Leu Lys Gln Ala Gly Leu Glu Lys Gly Ala
 385 390 395 400
 Glu Val Thr Leu Trp Ser Met Pro Val Gln Arg Pro Tyr Asn Pro Asn
 405 410 415
 Ser Arg Arg Ile Ala Glu Met Ile Gln Ala Asp Trp Ala Lys Val Gly
 420 425 430
 Val Lys Ala Lys Ile Val Ser Tyr Glu Trp Gly Glu Tyr Leu Ser Gly
 435 440 445
 Met Arg Lys Gly Glu His Asp Ser Ala Leu Phe Gly Trp Met Ser Asp
 450 455 460
 Asn Gly Asp Pro Asp Asn Phe Ala Asp Val Leu Leu Gly Cys Asn Ser
 465 470 475 480
 Ile Lys Thr Gly Ser Asn Ala Ala Arg Trp Cys Asp Lys Gly Tyr Asp
 485 490 495
 Glu Leu Val Gln Lys Ala Lys Leu Thr Ser Asn Pro Asp Glu Arg Ala
 500 505 510
 Lys Leu Tyr Gly Gln Ala Gln Glu Ile Phe Tyr Gln Gln Ala Pro Trp
 515 520 525
 Ile Ala Leu Ala Asn Gly Lys Thr Phe Tyr Ala Thr Arg Ser Asn Val
 530 535 540
 Thr Gly Tyr Ser Val Ser Leu Met Gly Ser Asp Phe Ser Lys Ala Lys
 545 550 555 560
 Leu Asn

<210> 8524

<211> 238

<212> PRT

<213> Enterobacter cloacae

<400> 8524

Thr Val Ala Glu Asn Gly Ile Leu Phe Trp Leu Arg Glu Leu Asn Met
 1 5 10 15
 Leu Asp Leu Glu Asn Leu Glu Lys Ala Gln Arg Ile Ser Leu Thr Met
 20 25 30
 Gln Val Glu Asn Ser Leu Lys Gly Ala Leu Ile Thr Gly Ser Leu Lys
 35 40 45
 Pro Gly Ala Arg Leu Ile Thr Lys Glu Ile Ala Asp Lys Leu Gly Thr
 50 55 60

Ser Ile Thr Pro Val Arg Glu Ala Leu Leu Arg Leu Val Ser Ala Gly
 65 70 75 80
 Ala Leu Gln Ala Thr Pro Ala Gln Ala Phe Leu Val Pro Glu Val Thr
 85 90 95
 Leu Glu Arg Tyr Asn Glu Ile Asn Ala Ile Arg Lys Gln Leu Glu Pro
 100 105 110
 Met Ala Val Ala Ala Ala Cys Gln Asn Met Thr Glu Thr Lys Leu Gly
 115 120 125
 Ala Leu Arg Ala Leu Ser Asp Asn Phe Ser Thr Ala Met His Gln Gly
 130 135 140
 Asp Val Gln Lys Ala Ile His Ala Asn Arg Val Phe Arg Phe Thr Leu
 145 150 155 160
 Tyr Gln Tyr Ala Glu Met Pro Thr Leu Asn Ser Leu Ile Glu Gln Leu
 165 170 175
 Trp Val Arg Ile Gly Pro Cys Ile Asn Tyr Leu His Glu Glu Met Lys
 180 185 190
 Asp Ile Pro Ala Thr Thr Tyr His Tyr Ala Asp Leu Leu Ser Ala Leu
 195 200 205
 Glu Gln Arg Asp Val Thr Ala Ser Arg Glu Ala Ile Asp Arg Ala Ile
 210 215 220
 Asp Glu Ala Asn Ile Leu Leu Gln Arg Gln Tyr Tyr Ser
 225 230 235

<210> 8525

<211> 231

<212> PRT

<213> Enterobacter cloacae

<400> 8525

Phe Ile Leu Ser Val Ile Val Phe Met Thr Ser Tyr Tyr Ser Val Arg
 1 5 10 15
 Met Val Phe Arg Gly Ser Phe Val Thr Lys Lys Gln Gly Phe Cys Arg
 20 25 30
 Ser Asp Gly Ile His Glu Leu Cys Asn Ile Val Thr Lys Pro Tyr Tyr
 35 40 45
 Tyr Ser Glu Gln His Ser Gln Arg Leu Thr Met Ile Val Arg His Ala
 50 55 60
 Cys Lys Glu Asp Cys Ala Ile Gly Glu Ile Tyr Asn His Ala Val
 65 70 75 80
 Leu His Thr Ala Ala Ile Trp Asn Asp Thr Thr Val Asp Thr Asp Asn
 85 90 95
 Arg Ile Ala Trp Phe Glu Ala Arg Thr Leu Leu Gly Tyr Pro Val Leu
 100 105 110
 Val Ser Glu Glu Glu Gly Val Val Thr Gly Tyr Ala Ser Phe Gly Asp
 115 120 125
 Trp Arg Ala Phe Asp Gly Phe Arg His Thr Val Glu His Ser Val Tyr
 130 135 140
 Val His Pro Asp His Gln Gly Lys Gly Ile Gly Arg Leu Leu Met Thr
 145 150 155 160
 Glu Leu Ile Lys Glu Ala Arg Gln Ile Gly Lys His Val Met Val Ala
 165 170 175
 Gly Ile Glu Ala Gln Asn Gln Ala Ser Ile His Leu His Glu Thr Leu
 180 185 190
 Gly Phe Ile Thr Thr Gly Asn Met Gln Gln Val Gly Thr Lys Phe Gly
 195 200 205
 Arg Trp Leu Asp Leu Thr Phe Met Gln Leu Gln Leu Asp Glu Arg Ser
 210 215 220
 Asp Pro Asp Ala Leu Pro
 225 230

<210> 8526

<211> 117
 <212> PRT
 <213> Enterobacter cloacae

<400> 8526

Gln	Gln	Ala	Phe	Lys	Gly	Gly	Asn	Met	Leu	Arg	Ile	Pro	Gln	Ser	Cys
1				5					10					15	
Ile	His	Thr	Arg	Ser	Thr	Pro	Phe	Trp	Asn	Lys	Glu	Thr	Ala	Pro	Ala
			20					25					30		
Gly	Ile	Phe	Lys	Arg	His	Leu	Asp	Thr	Gly	Thr	Arg	Pro	Gly	Val	Tyr
		35					40				45				
Pro	Arg	Leu	Ser	Val	Met	Arg	Gly	Ala	Val	Arg	Tyr	Leu	Gly	Tyr	Ala
	50					55				60					
Asp	Glu	Phe	Thr	Ser	Glu	Pro	Asp	Ser	Glu	Leu	Val	Ile	Glu	Ala	Gly
65					70				75						80
Arg	Phe	Gly	Val	Phe	Pro	Pro	Glu	Arg	Trp	His	His	Ile	Glu	Val	Met
				85				90						95	
Thr	Asp	Asp	Thr	Leu	Phe	Asn	Ile	Glu	Phe	Phe	Val	Glu	Pro	Glu	Val
			100					105					110		
Leu	Lys	Ser	Leu												
			115												

<210> 8527
 <211> 127
 <212> PRT
 <213> Enterobacter cloacae

<400> 8527

Ala	Pro	Ala	Asn	Met	Lys	Glu	Thr	Met	Met	Leu	Arg	Ile	Pro	Glu	Asn
1				5				10						15	
Phe	Val	His	Thr	Arg	Ser	Thr	Pro	Phe	Trp	Asn	Lys	Glu	Thr	Ala	Pro
			20					25					30		
Lys	Ala	Leu	Phe	Thr	His	His	Asn	Thr	Lys	Ala	Gly	Val	Tyr	Gly	Arg
		35					40				45				
Leu	Ser	Val	Met	Gln	Gly	Ala	Val	Arg	Tyr	Phe	Gly	Phe	Ala	Asp	Gly
	50					55			60						
Asp	Ala	Thr	Glu	Pro	Asp	Leu	Glu	Val	Val	Ile	Glu	Ala	Gly	Ser	Phe
65					70				75						80
Gly	Ile	Ser	Pro	Pro	Gln	Lys	Trp	His	Arg	Ile	Glu	Leu	Leu	Thr	Asp
				85				90						95	
Asp	Thr	Tyr	Phe	Asn	Ile	Asp	Phe	Phe	Ala	Asp	Pro	Ala	Val	Thr	Leu
			100				105						110		
Ser	Gly	Ala	Gly	Ile	Gly	Lys	Val	Val	Asn	Thr	His	Lys	Glu		
			115				120					125			

<210> 8528
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 8528

Ile	Met	Gly	Lys	Ala	Thr	Tyr	Thr	Val	Thr	Val	Thr	Asn	Asn	Ser	Asn
1				5				10						15	
Gly	Val	Ser	Val	Asp	Tyr	Glu	Thr	Glu	Ala	Pro	Met	Glu	Leu	Leu	Ile
			20					25					30		
Pro	Asp	Val	Ala	Ala	Asp	Val	Val	Lys	Asp	Leu	Val	Asn	Thr	Val	Arg
		35					40					45			
Ala	Tyr	Asp	Thr	Glu	Asn	Glu	His	Glu	Val	Cys	Gly	Trp			
	50					55					60				

<210> 8529

<211> 341
 <212> PRT
 <213> Enterobacter cloacae

<400> 8529

Gly	Val	Thr	Val	Met	Gly	Ile	Asp	Leu	Ser	Ile	Ile	Trp	Phe	Val	Ile
1				5					10					15	
Ile	Val	Phe	Ala	Thr	Leu	Met	Tyr	Ile	Val	Met	Asp	Gly	Phe	Asp	Leu
			20					25					30		
Gly	Ile	Gly	Ile	Leu	Phe	Pro	Ala	Thr	Pro	Asn	Ala	Asp	Asp	Arg	Asp
		35					40					45			
Val	Met	Val	Asn	Ser	Val	Ala	Pro	Val	Trp	Asp	Gly	Asn	Glu	Thr	Trp
	50					55					60				
Leu	Val	Leu	Gly	Gly	Ala	Ala	Leu	Phe	Gly	Ala	Phe	Pro	Leu	Ala	Tyr
65					70				75						80
Ala	Val	Ile	Ile	Asp	Ala	Leu	Thr	Ile	Pro	Leu	Thr	Ile	Met	Leu	Ile
				85					90					95	
Gly	Leu	Ile	Phe	Arg	Gly	Val	Ala	Phe	Glu	Phe	Arg	Phe	Lys	Ala	Thr
			100					105					110		
Pro	Ala	His	Arg	Pro	Phe	Trp	Asp	Lys	Ala	Phe	Ile	Gly	Gly	Ser	Ile
		115					120					125			
Val	Ala	Thr	Phe	Ser	Gln	Gly	Ile	Thr	Val	Gly	Ala	Val	Ile	Gln	Gly
	130					135					140				
Phe	Ser	Val	Thr	Gly	Arg	Ala	Tyr	Ser	Gly	Gly	Pro	Phe	Asp	Trp	Phe
145					150					155					160
Thr	Ala	Phe	Asn	Phe	Phe	Cys	Gly	Ala	Gly	Leu	Val	Val	Ala	Tyr	Ala
				165					170					175	
Leu	Leu	Gly	Ser	Thr	Trp	Leu	Val	Met	Lys	Ser	Glu	Asn	Ala	Leu	Gln
			180					185					190		
Lys	Arg	Met	Arg	Gln	Leu	Ser	Lys	Val	Leu	Leu	Pro	Leu	Leu	Leu	Val
	195						200					205			
Phe	Ile	Ala	Ile	Ile	Ser	Ile	Trp	Thr	Pro	Leu	Ala	Gln	Pro	Ala	Ile
	210					215					220				
Ala	Ala	Arg	Trp	Phe	Thr	Leu	Pro	Asn	Leu	Phe	Tyr	Leu	Leu	Pro	Val
225					230					235					240
Pro	Ala	Leu	Val	Ala	Ile	Leu	Ser	Leu	Cys	Gln	Trp	Arg	Cys	Leu	His
				245					250					255	
Asp	Pro	Ala	Ser	His	Thr	Leu	Pro	Phe	Ile	Met	Thr	Leu	Gly	Leu	Val
			260					265					270		
Phe	Leu	Gly	Phe	Ser	Gly	Leu	Gly	Ile	Ser	Ile	Trp	Pro	His	Ile	Ile
		275					280					285			
Pro	Pro	Asp	Ile	Thr	Leu	Trp	Gln	Ala	Ala	Ala	Pro	Ala	Gln	Ser	Gln
	290					295					300				
Gly	Phe	Met	Leu	Val	Gly	Ala	Leu	Leu	Ile	Ile	Pro	Val	Ile	Leu	Val
305					310					315					320
Tyr	Thr	Phe	Trp	Ser	Tyr	Tyr	Val	Phe	Arg	Gly	Lys	Val	Gln	His	Gly
				325					330					335	
Glu	Gly	Tyr	His												
			340												

<210> 8530
 <211> 81
 <212> PRT
 <213> Enterobacter cloacae

<400> 8530

Ala	Val	Ser	Val	Asp	Asn	Pro	Ser	Val	Leu	Thr	Lys	Leu	Leu	Leu	Trp
1				5					10					15	
Gly	Ser	Phe	Val	Asn	Arg	Ala	Gly	Ile	Arg	Arg	Cys	Asn	Pro	Tyr	His
			20					25				30			
Thr	Arg	His	Thr	Phe	Ala	Cys	Trp	Phe	Leu	Pro	Val	Ala	Ala	Asn	Pro

	35		40		45												
Ser	Phe	Ile	Ala	Asn	Gln	Met	Gly	His	Val	Asn	Ala	Gln	Met	Val	Tyr		
	50					55					60						
Glu	Ile	Tyr	Ala	Thr	Trp	Ile	Glu	Glu	Met	Asn	Thr	Lys	Leu	Thr	Leu		
65					70					75					80		

<210> 8531
 <211> 129
 <212> PRT
 <213> Enterobacter cloacae

Cys	Gly	Thr	Leu	Pro	Pro	Leu	Trp	Met	Lys	Thr	Asp	Cys	Gly	Gly	Asn		
1				5					10					15			
Arg	Met	Pro	Gly	Ile	Ala	Arg	Asn	Met	Gly	Tyr	Ala	Ser	Phe	Gly	Trp		
			20					25					30				
Glu	Pro	Glu	Glu	Gly	Trp	Tyr	Ala	Gly	Ala	Asp	Ala	Arg	Tyr	Met	Ser		
		35					40					45					
Asp	Val	Met	Ala	Asn	Asp	Thr	Asn	Thr	Ala	Lys	Ala	Pro	Ser	Tyr	Thr		
	50				55						60						
Val	Val	Gly	Leu	Asn	Thr	Gly	Tyr	Lys	Leu	Asn	Tyr	Gly	Lys	Trp	Gly		
65				70					75					80			
Met	Asp	Ile	Phe	Gly	Arg	Val	Asp	Asn	Leu	Phe	Asp	Lys	Glu	Tyr	Val		
				85				90					95				
Gly	Ser	Glu	Ile	Val	Asn	Ala	Gly	Tyr	Asn	Arg	Tyr	Tyr	Glu	Pro	Ala		
			100				105					110					
Pro	Gly	Arg	Asn	Tyr	Gly	Val	Gly	Leu	Ser	Val	Ser	Tyr	Arg	Phe	Glu		
		115					120					125					

<210> 8532
 <211> 484
 <212> PRT
 <213> Enterobacter cloacae

Tyr	Leu	Ile	Pro	Pro	Leu	Phe	Ile	Ile	Thr	Val	His	Arg	Leu	Thr	Leu		
1				5					10					15			
Arg	Gln	Cys	Met	Phe	Gly	Pro	Asp	Ala	Phe	His	Leu	Ala	Arg	Ile	Gln		
			20					25					30				
Phe	Ala	Phe	Thr	Val	Ser	Phe	His	Ile	Ile	Phe	Pro	Ala	Ile	Thr	Ile		
		35					40					45					
Gly	Leu	Ala	Ser	Tyr	Leu	Ala	Val	Leu	Glu	Gly	Leu	Trp	Leu	Arg	Thr		
	50				55					60							
Lys	Asn	Pro	Val	Trp	Arg	Ser	Leu	Tyr	His	Phe	Trp	Ser	Lys	Ile	Phe		
65				70					75					80			
Ala	Val	Asn	Phe	Gly	Met	Gly	Val	Val	Ser	Gly	Leu	Val	Met	Ala	Tyr		
			85					90					95				
Gln	Phe	Gly	Thr	Asn	Trp	Ser	Gly	Phe	Ser	Gln	Phe	Ala	Gly	Ser	Ile		
			100				105						110				
Thr	Gly	Pro	Leu	Leu	Thr	Tyr	Glu	Val	Leu	Thr	Ala	Phe	Phe	Leu	Glu		
		115					120					125					
Ala	Gly	Phe	Leu	Gly	Val	Met	Leu	Phe	Gly	Trp	Asn	Lys	Val	Gly	Pro		
	130					135					140						
Gly	Leu	His	Phe	Phe	Ser	Thr	Cys	Met	Val	Ala	Leu	Gly	Thr	Leu	Met		
145				150					155					160			
Ser	Thr	Phe	Trp	Ile	Leu	Ser	Ser	Asn	Ser	Trp	Met	Gln	Thr	Pro	Gln		
				165					170					175			

Gly Tyr Glu Ile Ile Asn Gly Gln Val Val Pro Val Asp Trp Phe Ala
 180 185 190
 Val Val Phe Asn Pro Ser Phe Pro Tyr Arg Leu Leu His Met Ser Ile
 195 200 205
 Ala Ala Phe Leu Ser Ser Ala Leu Phe Val Gly Ala Ser Ala Ala Trp
 210 215 220
 His Leu Leu Arg Gly Asn Asn Thr Pro Ala Ile Arg Thr Met Phe Ser
 225 230 235 240
 Met Ala Leu Trp Met Thr Leu Ile Val Ala Pro Val Gln Ala Leu Val
 245 250 255
 Gly Asp Met His Gly Leu Asn Thr Leu Lys His Gln Pro Ala Lys Ile
 260 265 270
 Ala Ala Ile Glu Gly His Trp Glu Asn Pro Pro Gly Glu Pro Thr Pro
 275 280 285
 Leu Leu Leu Phe Gly Trp Pro Asp Met Glu Gln Glu Arg Thr Arg Phe
 290 295 300
 Gly Leu Glu Ile Pro Ala Leu Gly Ser Leu Ile Leu Thr His Ser Leu
 305 310 315 320
 Asp Lys Gln Val Pro Ala Leu Lys Glu Phe Pro Lys Glu Asp Arg Pro
 325 330 335
 Asn Ala Thr Ile Val Phe Trp Ser Phe Arg Ile Met Ala Gly Leu Gly
 340 345 350
 Met Leu Met Leu Leu Leu Gly Val Thr Ala Ile Trp Leu Arg Tyr Lys
 355 360 365
 Gln Arg Leu Tyr Thr Ser Arg Ser Phe Leu Trp Phe Ala Leu Leu Met
 370 375 380
 Gly Pro Ser Gly Leu Ile Ala Ile Leu Ala Gly Trp Val Thr Thr Glu
 385 390 395 400
 Val Gly Arg Gln Pro Trp Val Val Tyr Gly Leu Gln Arg Thr Lys Asp
 405 410 415
 Ala Val Ser Ala His Gly Asp Leu His Met Ser Ile Ser Leu Leu Ala
 420 425 430
 Phe Phe Val Val Tyr Thr Ala Val Phe Gly Val Gly Tyr Ser Tyr Met
 435 440 445
 Val Arg Leu Ile Lys Lys Gly Pro Gln Pro His Glu Ser Phe Ala Thr
 450 455 460
 Glu Ser Asp Gly Arg Pro Ala Arg Pro Leu Ser Ala Val Thr Thr Glu
 465 470 475 480
 Phe Lys Glu

<210> 8533

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 8533

Lys Met Lys Lys Leu Ala Ala Val Ser Leu Ile Ser Leu Val Leu Ala
 1 5 10 15
 Gly Cys Val Asn Pro Gly Lys Ala Ser Val Gln Thr Asp Gln Leu Glu
 20 25 30
 Asn His Arg Phe Val Leu Glu Asn Val Asp Gly Lys Ala Val Lys Gly
 35 40 45
 Gly Lys Thr Gln Pro Glu Ile Arg Phe Ser Ala Gln Pro Asn Ile Ser
 50 55 60
 Leu Ile Asn Asn Ile Val Val Ser Gly Thr Met Cys Asn Gly Phe Asn
 65 70 75 80
 Gly Gln Gly Lys Leu Ser Glu Gly Glu Leu Thr Val Lys Thr Leu Ala
 85 90 95
 Met Thr Arg Lys Leu Cys Thr Glu Pro Gln Leu Asn Glu Leu Asp Gln
 100 105 110

Thr Ile Ala Asp Met Leu Arg Thr Gly Ala Gln Val Asp Leu Thr Glu
 115 120 125
 Asp Gln Leu Thr Leu Ala Thr Ala Asn Lys Thr Leu Met Phe Lys Arg
 130 135 140
 Val Glu
 145

<210> 8534
 <211> 158
 <212> PRT
 <213> Enterobacter cloacae

<400> 8534
 Ala Gln Arg Ser Gly Cys Ser Ala Met Asn Gln Ser Leu Thr Leu Ala
 1 5 10 15
 Phe Leu Val Ala Ala Gly Ile Gly Leu Val Val Gln Asn Thr Leu Met
 20 25 30
 Val Arg Ile Thr Gln Ser Ser Ser Thr Ile Leu Ile Ala Met Leu Leu
 35 40 45
 Asn Ser Leu Val Gly Ile Val Leu Phe Val Ser Met Leu Leu Val Lys
 50 55 60
 Asn Gly Met Ala Gly Phe Asn Glu Leu Ala Ser Thr Val Arg Trp Trp
 65 70 75 80
 Thr Leu Ile Pro Gly Leu Leu Gly Ser Phe Phe Val Phe Ala Ser Ile
 85 90 95
 Ser Gly Tyr Gln Asn Val Gly Ala Ala Thr Thr Ile Ala Val Leu Val
 100 105 110
 Ala Ser Gln Leu Ile Gly Gly Leu Val Met Asp Ile Leu Lys Ser Asn
 115 120 125
 Gly Val Pro Leu Arg Ala Leu Val Gly Pro Val Cys Gly Ala Val Met
 130 135 140
 Leu Val Ala Gly Ala Trp Leu Val Ala Arg Arg Gln Phe
 145 150 155

<210> 8535
 <211> 1179
 <212> PRT
 <213> Enterobacter cloacae

<400> 8535
 Gly Cys Cys Pro Met Gln Thr Ile Asp Gly Asn Gly Ala Val Ala Ser
 1 5 10 15
 Val Ala Phe Arg Thr Ser Glu Val Ile Ala Ile Tyr Pro Ile Thr Pro
 20 25 30
 Ser Ser Thr Met Ala Glu Gln Ala Asp Ala Trp Ala Gly Asn Gly Ile
 35 40 45
 Lys Asn Val Trp Gly Asp Val Pro Arg Val Val Glu Met Gln Ser Glu
 50 55 60
 Ala Gly Ala Ile Ala Thr Val His Gly Ala Leu Gln Thr Gly Ala Leu
 65 70 75 80
 Ser Thr Ser Phe Thr Ser Ser Gln Gly Leu Leu Leu Met Ile Pro Thr
 85 90 95
 Leu Tyr Lys Leu Ala Gly Gln Leu Thr Pro Phe Val Leu His Val Ala
 100 105 110
 Ala Arg Thr Val Ala Thr His Ala Leu Ser Ile Phe Gly Asp His Ser
 115 120 125
 Asp Val Met Ala Val Arg Gln Thr Gly Cys Ala Met Leu Cys Ala Ser
 130 135 140
 Ser Val Gln Glu Ala Gln Asp Phe Ala Leu Ile Ser His Ile Ala Thr
 145 150 155 160
 Leu Lys Ser Arg Val Pro Phe Ile His Phe Phe Asp Gly Phe Arg Thr

					165					170					175
Ser	His	Glu	Ile	Asn	Lys	Ile	Val	Pro	Leu	Pro	Asp	Asp	Thr	Ile	Leu
			180					185					190		
Asn	Leu	Leu	Pro	Gln	Ala	Asp	Ile	Asp	Ala	His	Arg	Ala	Arg	Ala	Leu
		195					200					205			
Asn	Pro	Glu	His	Pro	Val	Ile	Arg	Gly	Thr	Ser	Ala	Asn	Pro	Asp	Thr
		210				215					220				
Tyr	Phe	Gln	Ser	Arg	Glu	Ala	Thr	Asn	Pro	Trp	Tyr	Asn	Ala	Val	Tyr
225					230					235					240
Glu	His	Val	Glu	Gln	Ala	Met	Asp	Asp	Phe	Ala	Ala	Ala	Thr	Gly	Arg
				245					250					255	
Glu	Tyr	Lys	Pro	Phe	Glu	Tyr	Tyr	Gly	His	Pro	Gln	Ala	Glu	Arg	Val
			260					265					270		
Ile	Val	Leu	Met	Gly	Ser	Ala	Ile	Gly	Thr	Cys	Glu	Glu	Val	Val	Asp
		275					280					285			
Glu	Leu	Leu	Thr	Arg	Gly	Glu	Lys	Val	Gly	Val	Leu	Lys	Val	Arg	Leu
		290				295					300				
Tyr	Arg	Pro	Phe	Ser	Ala	Lys	His	Leu	Leu	Ala	Ala	Leu	Pro	Asp	Ser
305					310					315					320
Ala	His	Ala	Val	Ala	Val	Leu	Asp	Arg	Thr	Lys	Glu	Pro	Gly	Ala	Gln
				325					330					335	
Ala	Glu	Pro	Leu	Tyr	Leu	Asp	Val	Met	Thr	Ala	Leu	Ala	Glu	Thr	Phe
			340					345					350		
Asn	Arg	Gly	Glu	Arg	Glu	Thr	Leu	Pro	Arg	Val	Ile	Gly	Gly	Arg	Tyr
		355					360					365			
Gly	Leu	Ser	Ser	Lys	Glu	Phe	Gly	Pro	Glu	Cys	Val	Leu	Ala	Val	Phe
		370				375					380				
Ala	Glu	Leu	Arg	Glu	Ala	Lys	Pro	Lys	Pro	Arg	Phe	Thr	Val	Gly	Ile
385				390						395					400
Tyr	Asp	Asp	Val	Thr	Asn	Leu	Ser	Leu	Pro	Leu	Pro	Glu	Asn	Thr	Leu
				405					410					415	
Pro	Ser	Asn	Ala	Lys	Leu	Glu	Ala	Leu	Phe	Tyr	Gly	Leu	Gly	Ser	Asp
		420						425					430		
Gly	Ser	Val	Ser	Ala	Thr	Lys	Asn	Asn	Ile	Lys	Ile	Ile	Gly	Asn	Ser
		435					440					445			
Thr	Pro	Trp	Tyr	Ala	Gln	Gly	Tyr	Phe	Val	Tyr	Asp	Ser	Lys	Lys	Ala
		450				455					460				
Gly	Gly	Leu	Thr	Val	Ser	His	Leu	Arg	Val	Ser	Glu	His	Pro	Ile	Arg
465				470						475					480
Ser	Ala	Tyr	Leu	Ile	Ser	Gln	Ala	Asp	Phe	Val	Gly	Cys	His	Gln	Leu
				485					490					495	
Gln	Phe	Ile	Asp	Lys	Tyr	Gln	Met	Ala	Glu	Arg	Leu	Lys	Pro	Gly	Gly
			500					505					510		
Ile	Phe	Leu	Ile	Asn	Thr	Pro	Tyr	Ser	Ala	Asp	Glu	Val	Trp	Ala	Arg
		5													

Thr	Leu	Pro	Val	Ser	Ala	Leu	Pro	Pro	Asp	Gly	Thr	Trp	Pro	Met	Gly
			660					665					670		
Thr	Thr	Arg	Trp	Glu	Lys	Arg	Asn	Ile	Ala	Glu	Ala	Ile	Pro	Ile	Trp
		675					680					685			
Lys	Glu	Glu	Leu	Cys	Thr	Gln	Cys	Asn	His	Cys	Val	Ala	Ala	Cys	Pro
	690					695					700				
His	Ser	Ala	Ile	Arg	Ala	Lys	Val	Val	Ser	Pro	Glu	Ala	Leu	Asp	Gly
705				710						715					720
Ala	Pro	Glu	Ser	Leu	His	Ser	Leu	Asp	Val	Lys	Ser	Arg	Asp	Met	Arg
			725						730					735	
Gly	Gln	Lys	Tyr	Val	Leu	Gln	Val	Ala	Pro	Glu	Asp	Cys	Thr	Gly	Cys
			740					745					750		
Asn	Leu	Cys	Val	Glu	Val	Cys	Pro	Ala	Lys	Asp	Arg	Gln	Asp	Pro	Ser
		755					760					765			
Ile	Lys	Ala	Ile	Asn	Met	Met	Ser	Arg	Leu	Glu	His	Val	Glu	Glu	Glu
	770					775						780			
Lys	Val	Asn	Tyr	Asp	Phe	Phe	Leu	Asp	Leu	Pro	Glu	Ile	Asp	Arg	Asn
785				790						795					800
Lys	Leu	Glu	Arg	Ile	Asp	Ile	Arg	Thr	Ser	Gln	Leu	Ile	Thr	Pro	Leu
			805					810							815
Phe	Glu	Tyr	Ser	Gly	Ala	Cys	Ser	Gly	Cys	Gly	Glu	Thr	Pro	Tyr	Ile
			820					825					830		
Lys	Leu	Leu	Thr	Gln	Leu	Tyr	Gly	Asp	Arg	Met	Leu	Ile	Ala	Asn	Ala
		835					840					845			
Thr	Gly	Cys	Ser	Ser	Ile	Tyr	Gly	Gly	Asn	Leu	Pro	Ser	Thr	Pro	Tyr
	850					855						860			
Thr	Thr	Asp	Ala	Asn	Gly	Arg	Gly	Pro	Ala	Trp	Ala	Asn	Ser	Leu	Phe
865				870						875					880
Glu	Asp	Asn	Ala	Glu	Phe	Gly	Leu	Gly	Phe	Arg	Leu	Thr	Val	Asp	Gln
			885						890					895	
His	Arg	Ala	Arg	Ile	Met	Arg	Leu	Leu	Ala	Gln	Phe	Ala	Asp	Lys	Ile
			900					905					910		
Pro	Ala	Glu	Leu	Asn	Asp	Ala	Leu	His	Ala	Glu	Ala	Thr	Pro	Asp	Val
		915					920						925		
Arg	Arg	Ala	Gln	Val	Ala	Glu	Leu	Arg	His	Ala	Leu	Gln	Gly	Val	Glu
	930					935					940				
Gly	Ala	Glu	Gln	Leu	Leu	Thr	Asp	Ala	Asp	Ala	Leu	Val	Glu	Lys	Ser
945				950						955					960
Ile	Trp	Leu	Ile	Gly	Gly	Asp	Gly	Trp	Ala	Tyr	Asp	Ile	Gly	Phe	Gly
			965						970					975	
Gly	Leu	Asp	His	Val	Leu	Ser	Leu	Thr	Glu	Asn	Val	Asn	Ile	Leu	Val
		980						985					990		
Leu	Asp	Thr	Gln	Cys	Tyr	Ser	Asn	Thr	Gly	Gly	Gln	Ala	Ser	Lys	Ala
		995					1000					1005			
Thr	Pro	Leu	Gly	Ala	Val	Thr	Lys	Phe	Gly	Glu	His	Gly	Lys	Arg	Lys
	1010					1015						1020			
Ala	Arg	Lys	Asp	Leu	Gly	Val	Ser	Met	Met	Met	Tyr	Gly	His	Val	Tyr
1025				1030							1035				1040
Val	Ala	Gln	Ile	Ser	Leu	Gly	Ala	Gln	Leu	Asn	Gln	Thr	Val	Lys	Ala
			1045						1050					1055	
Ile	Gln	Glu	Ala	Glu	Ala	Tyr	Pro	Gly	Pro	Ser	Leu	Ile	Ile	Ala	Tyr
		1060						1065					1070		
Ser	Pro	Cys	Glu	Glu	His	Gly	Tyr	Asp	Leu	Ala	Leu	Ser	His	Asp	Gln
		1075						1080					1085		
Met	Arg	Gln	Leu	Thr	Ala	Thr	Gly	Phe	Trp	Pro	Leu	Tyr	Arg	Phe	Asp
	1090					1095						1100			
Pro	Arg	Arg	Ala	Asp	Glu	Gly	Lys	Leu	Pro	Leu	Ala	Leu	Asp	Ser	Arg
1105				1110							1115				1120
Pro	Pro	Ser	Asp	Ala	Leu	Ala	Glu	Thr	Leu	Leu	Gln	Glu	Gln	Arg	Phe
			1125						1130					1135	
Arg	Arg	Leu	Asn	Ala	Gln	Gln	Pro	Glu	Val	Ala	Glu	Gln	Leu	Trp	Lys

1140 1145 1150
 Asp Ala Ala Ala Asp Leu Gln Lys Arg Tyr Asp Phe Leu Ala Gln Leu
 1155 1160 1165
 Ala Gly Lys Ala Glu Lys Ser Thr Ser Glu
 1170 1175

<210> 8536

<211> 385

<212> PRT

<213> Enterobacter cloacae

<400> 8536

Lys Asn Asn Cys Lys Gly Ile Ile Lys Met Gln Arg Lys Val Leu Ala
 1 5 10 15
 Leu Met Ile Pro Ala Leu Leu Met Ala Gly Ala Ala His Ala Ala Glu
 20 25 30
 Ile Tyr Asn Lys Asp Gly Asn Lys Leu Asp Leu Tyr Gly Lys Val Asp
 35 40 45
 Gly Leu His Tyr Phe Ser Asp Asp Ala Ser Lys Asp Gly Asp Gln Thr
 50 55 60
 Tyr Met Arg Leu Gly Phe Lys Gly Glu Thr Gln Ile Asn Asp Met Met
 65 70 75 80
 Thr Gly Phe Ala Gln Trp Glu Tyr Asn Ile Gln Ala Asn Asn Thr Glu
 85 90 95
 Gly Ser Asp Asn Gln Ser Trp Thr Arg Leu Ala Phe Ala Gly Val Lys
 100 105 110
 Val Gly Asp Tyr Gly Ser Phe Asp Tyr Gly Arg Asn Tyr Gly Val Leu
 115 120 125
 Tyr Asp Val Glu Gly Trp Thr Asp Met Leu Pro Glu Phe Gly Gly Asp
 130 135 140
 Ser Tyr Thr Tyr Ala Asp Asn Phe Met Thr Gly Arg Ala Asn Gly Val
 145 150 155 160
 Ala Thr Tyr Arg Asn Thr Asp Phe Phe Gly Leu Val Gln Gly Leu Asn
 165 170 175
 Phe Ala Val Gln Tyr Gln Gly Asn Asn Glu Gly Asn Asn Cys Asp Glu
 180 185 190
 Asn Phe Cys Ser Thr Asn Glu Gly Thr Asn Asn Gly Arg Asp Thr Arg
 195 200 205
 His Glu Asn Gly Asp Gly Tyr Gly Ile Ser Ala Thr Tyr Asp Phe Gly
 210 215 220
 Met Gly Phe Ser Ala Gly Ala Ala Tyr Thr Ser Ser Asp Arg Thr Asn
 225 230 235 240
 Asp Gln Val Asn Tyr Thr Thr Ala Gly Gly Asp Thr Ala Asp Ala Trp
 245 250 255
 Thr Ala Gly Leu Lys Tyr Asp Ala Asn Asn Ile Tyr Leu Ala Ala Met
 260 265 270
 Tyr Ser Glu Thr Arg Asn Met Thr Pro Tyr Gly Asp Asn Ala Asp Ala
 275 280 285
 Val Ala Asn Lys Thr Gln Asn Phe Glu Val Thr Ala Gln Tyr Gln Phe
 290 295 300
 Asp Phe Gly Leu Arg Pro Ala Ile Ser Tyr Leu Gln Ser Lys Gly Lys
 305 310 315 320
 Asp Leu Gly Asn Gly Gln Asp Asp Lys Asp Leu Val Lys Tyr Ala Asp
 325 330 335
 Val Gly Ala Thr Tyr Tyr Phe Asn Lys Asn Met Ser Thr Tyr Val Asp
 340 345 350
 Tyr Lys Ile Asn Leu Leu Asp Glu Asp Asp Ser Phe Tyr Lys Asn Asn
 355 360 365
 Gly Ile Gly Thr Asp Asp Ile Val Ala Leu Gly Leu Val Tyr Gln Phe
 370 375 380

385

<210> 8537

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 8537

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Lys Arg Arg Tyr Ser Gly Ser Cys Gly Glu Ser Gly Ala Gly Leu Pro
1      5      10      15
Val Gly Arg Arg Gly Glu Asn Arg Gln Arg Ser Val Cys His Arg Ser
20      25      30
Ala Met Ala Thr Ala Ala Leu Ser Asp Ile Thr Thr Arg Val Glu Lys
35      40      45
Met Lys Arg Tyr Thr Pro Asp Phe Pro Glu Met Met Arg Leu Cys Glu
50      55      60
Thr Asn Phe Ala Gln Leu Arg Arg Leu Leu Pro Arg Asn Asp Ala Pro
65      70      75      80
Gly Glu Thr Val Ser Tyr Gln Val Ser Asn Ala Gln Tyr Arg Leu Thr
85      90      95
Ile Thr Glu Ser Thr Arg Tyr Thr Thr Leu Val Glu Ile Glu Gln Thr
100     105     110
Ala Pro Ser Ile Ser Tyr Trp Ser Leu Pro Ser Met Thr Val Arg Leu
115     120     125
Tyr His Asp Ala Met Val Ala Glu Val Cys Ser Ser Gln Gln Ile Phe
130     135     140
Arg Phe Lys Ala Arg Tyr Asp Tyr Pro Asn Lys Lys Leu His Gln Arg
145     150     155     160
Asp Glu Lys His Gln Ile Asn Gln Phe Leu Ala Asp Trp Leu Arg Tyr
165     170     175
Cys Leu Ala His Gly Ala Met Ala Ile Pro Val Cys
180     185

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<210> 8538

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 8538

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Gly His His Leu Glu Ser Leu Leu Asn Leu Thr Val Ala Gly Gly Ala
1      5      10      15
Pro Val Arg Ile Leu Gln Ile Thr Asp Thr His Leu Phe Ala Glu Lys
20      25      30
His Glu Thr Leu Leu Gly Val Asn Thr Trp Glu Ser Tyr Gln Ala Val
35      40      45
Leu Asp Ala Ile His Ala Glu Lys Arg Pro Cys Asp Leu Ile Val Ala
50      55      60
Thr Gly Asp Leu Ala Gln Asp Gln Ser Ser Ala Ala Tyr Gln His Phe
65      70      75      80
Ala Glu Gly Ile Ala Ser Phe Ser Val Pro Cys Val Trp Leu Pro Gly
85      90      95
Asn His Asp Phe Gln Pro Ala Met Tyr Ser Ser Leu Gln Asp Ala Gly
100     105     110
Ile Ser Pro Ala Lys Cys Val Phe Ala Gly Asp Gln Trp Gln Ile Leu
115     120     125
Leu Leu Asp Ser Gln Val Phe Gly Val Pro His Gly Glu Leu Ser Asp
130     135     140
Tyr Gln Leu Asp Trp Leu Glu Thr Lys Leu Ala Ala Glu Pro Asn Arg
145     150     155     160
Asn Thr Leu Leu Leu Leu His His His Pro Leu Pro Ala Gly Cys Ser
165     170     175

```

Trp Leu Asp Gln His Ser Leu Arg Asn Ser Ala Ala Leu Asp Gly Val
 180 185 190
 Leu Ala Lys Phe Pro Arg Val Lys Asn Leu Leu Cys Gly His Ile His
 195 200 205
 Gln Glu Gln Asp Leu Asp Trp Asn Gly Arg Arg Leu Leu Ala Thr Pro
 210 215 220
 Ser Thr Cys Val Gln Phe Lys Pro His Cys Ala Asn Phe Thr Leu Asp
 225 230 235 240
 Thr Ile Ala Pro Gly Trp Arg Trp Leu Glu Leu His Ala Asp Gly Ser
 245 250 255
 Leu Thr Thr Glu Val Cys Arg Leu Ala Gly Ala Gln Phe Arg Pro Asp
 260 265 270
 Thr Ala Ser Glu Gly Tyr
 275

<210> 8539

<211> 632

<212> PRT

<213> Enterobacter cloacae

<400> 8539

Ile Met Thr Gln Thr Tyr Asn Ala Asp Ala Ile Glu Val Leu Thr Gly
 1 5 10 15
 Leu Glu Pro Val Arg Arg Arg Pro Gly Met Tyr Thr Asp Thr Thr Arg
 20 25 30
 Pro Asn His Leu Gly Gln Glu Val Ile Asp Asn Ser Val Asp Glu Ala
 35 40 45
 Leu Ala Gly His Ala Lys Arg Val Asp Val Ile Leu His Ala Asp Gln
 50 55 60
 Ser Leu Glu Val Ile Asp Asp Gly Arg Gly Met Pro Val Asp Ile His
 65 70 75 80
 Pro Glu Glu Gly Val Pro Ala Val Glu Leu Ile Leu Cys Arg Leu His
 85 90 95
 Ala Gly Gly Lys Phe Ser Asn Lys Asn Tyr Gln Phe Ser Gly Gly Leu
 100 105 110
 His Gly Val Gly Ile Ser Val Val Asn Ala Leu Ser Lys Arg Val Glu
 115 120 125
 Val Asn Val Arg Arg Asp Gly Gln Val Tyr Asn Ile Ala Phe Glu Asn
 130 135 140
 Gly Glu Lys Val Gln Asp Leu Gln Val Val Gly Thr Cys Gly Lys Arg
 145 150 155 160
 Asn Thr Gly Thr Ser Val His Phe Trp Pro Asp Glu Ser Phe Phe Asp
 165 170 175
 Ser Pro Arg Phe Ser Val Ser Arg Leu Thr His Leu Leu Lys Ala Lys
 180 185 190
 Ala Val Leu Cys Pro Gly Val Glu Ile Thr Phe Lys Asp His Val Asn
 195 200 205
 Asn Thr Glu Gln Thr Trp Cys Tyr Ala Asp Gly Leu Asn Asp Tyr Leu
 210 215 220
 Cys Glu Ala Val Asn Gly Leu Pro Thr Leu Pro Glu Lys Pro Phe Val
 225 230 235 240
 Gly Asn Phe Glu Gly Asp Thr Glu Ala Val Asp Trp Ala Leu Leu Trp
 245 250 255
 Leu Pro Glu Gly Gly Glu Leu Leu Thr Glu Ser Tyr Val Asn Leu Ile
 260 265 270
 Pro Thr Met Leu Gly Gly Thr His Val Asn Gly Leu Arg Gln Gly Leu
 275 280 285
 Leu Asp Ala Met Arg Glu Phe Cys Glu Tyr Arg Asn Ile Leu Pro Arg
 290 295 300
 Gly Val Lys Leu Ser Ala Glu Asp Ile Trp Asp Arg Cys Ala Tyr Val
 305 310 315 320


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Leu Ser Val Lys Met Gln Asp Pro Gln Phe Ala Gly Gln Thr Lys Glu
                325                330                335
Arg Leu Ser Ser Arg Gln Cys Ala Ala Phe Val Ser Gly Val Val Lys
                340                345                350
Asp Ala Phe Thr Leu Trp Leu Asn Gln Asn Val Gln Ala Ala Glu Met
                355                360                365
Leu Ala Glu Met Ala Ile Ser Ser Ala Gln Arg Arg Leu Arg Ala Ala
                370                375                380
Lys Lys Val Val Arg Lys Lys Leu Thr Ser Gly Pro Ala Leu Pro Gly
385                390                395                400
Lys Leu Ala Asp Cys Thr Ala Gln Asp Leu Asn Arg Thr Glu Leu Phe
                405                410                415
Leu Val Glu Gly Asp Ser Ala Gly Gly Ser Ala Lys Gln Ala Arg Asp
                420                425                430
Arg Glu Tyr Gln Ala Ile Met Pro Leu Lys Gly Lys Ile Leu Asn Thr
                435                440                445
Trp Glu Val Ser Ser Asp Glu Val Leu Ala Ser Gln Glu Val His Asp
450                455                460
Ile Ser Val Ala Ile Gly Ile Asp Pro Asp Ser Asp Asp Leu Ser Gln
465                470                475                480
Leu Arg Tyr Gly Lys Ile Cys Ile Leu Ala Asp Ala Asp Ser Asp Gly
                485                490                495
Leu His Ile Ala Thr Leu Leu Cys Ala Leu Phe Val Lys His Phe Arg
                500                505                510
Ala Leu Val Lys Asn Gly His Val His Val Ala Leu Pro Pro Leu Tyr
                515                520                525
Arg Ile Asp Leu Gly Lys Glu Val Tyr Tyr Ala Leu Thr Glu Glu Glu
530                535                540
Lys Ala Gly Val Leu Glu Gln Leu Lys Arg Lys Lys Gly Lys Pro Asn
545                550                555                560
Val Gln Arg Phe Lys Gly Leu Gly Glu Met Asn Pro Met Gln Leu Arg
                565                570                575
Glu Thr Thr Leu Asp Pro Asn Thr Arg Arg Leu Val Gln Leu Thr Ile
580                585                590
Ser Asp Glu Asp Glu Gln Gln Thr Asn Ala Val Met Asp Met Leu Leu
595                600                605
Ala Lys Lys Arg Ser Glu Asp Arg Arg Asn Trp Leu Gln Glu Lys Gly
610                615                620
Asp Met Ala Asp Ile Glu Ala
625                630

```

<210> 8540

<211> 759

<212> PRT

<213> Enterobacter cloacae

<400> 8540

```

Val Glu Glu Ser His Val Met Ser Asp Met Ala Glu Arg Leu Ala Leu
1                5                10                15
His Glu Phe Thr Glu Asn Ala Tyr Leu Asn Tyr Ser Met Tyr Val Ile
                20                25                30
Met Asp Arg Ala Leu Pro Phe Ile Gly Asp Gly Leu Lys Pro Val Gln
35                40                45
Arg Arg Ile Val Tyr Ala Met Ser Glu Leu Gly Leu Asn Ala Thr Ala
50                55                60
Lys Phe Lys Lys Ser Ala Arg Thr Val Gly Asp Val Leu Gly Lys Tyr
65                70                75                80
His Pro His Gly Asp Ile Ala Cys Tyr Glu Ala Met Val Leu Met Ala
85                90                95
Gln Pro Phe Ser Tyr Arg Tyr Pro Leu Val Asp Gly Gln Gly Asn Trp
100                105                110

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```
<210> 8541
<211> 256
<212> PRT
<213> Enterobacter cloacae
```

Leu 1	Ser	Ala	Val	Arg 5	Ala	Ser	Glu	Val	Ala 10	Met	Leu	Tyr	Ile	Val 15	Arg
Leu	Ile	Leu	Thr 20	Val	Ile	Tyr	Cys	Ile 25	Leu	Val	Cys	Ile	Phe 30	Gly	Ser
Ile	Tyr	Cys 35	Leu	Phe	Ser	Pro	Arg 40	Asn	Pro	Lys	His	Val 45	Ala	Thr	Phe
Gly	His 50	Met	Phe	Gly	Arg	Leu 55	Ala	Pro	Leu	Phe	Gly 60	Leu	Lys	Val	Glu
Lys 65	Arg	Leu	Pro	Glu	Gly 70	Ala	Glu	Asn	Phe	Gly 75	Asn	Ala	Ile	Tyr	Ile 80
Ala	Asn	His	Gln	Asn 85	Asn	Tyr	Asp	Met	Val 90	Thr	Ala	Ser	Asn 95	Ile	Val
Leu	Pro	Pro	Thr 100	Val	Thr	Val	Gly	Lys 105	Lys	Ser	Leu	Leu	Trp 110	Ile	Pro
Phe	Phe	Gly 115	Gln	Leu	Tyr	Trp	Leu 120	Thr	Gly	Asn	Leu	Leu 125	Ile	Asp	Arg
Asn	Asn	Arg	Ala	Lys	Ala	His 135	Gly	Thr	Ile	Ala	Glu 140	Val	Val	Asp	Gln
Phe 145	Lys	Lys	Arg	Arg	Ile	Ser 150	Ile	Trp	Met	Phe	Pro	Glu	Gly	Thr	Arg 160
Ser	Arg	Gly	Arg	Gly 165	Leu	Leu	Pro	Phe	Lys 170	Thr	Gly	Ala	Phe	His 175	Ala
Ala	Ile	Ala	Ala	Gly 180	Val	Pro	Ile	Ile	Pro	Val	Cys	Val	Ser	Asn	Thr
Ser	Asn	Lys 195	Ile	Asn	Leu	Asn	Arg 200	Leu	Asn	Asn	Gly	Leu	Val	Ile	Val
Glu	Met	Leu	Pro	Pro	Val	Asp 215	Thr	Ser	Lys	Tyr	Gly 220	Lys	Asp	Gln	Val
Arg 225	Glu	Leu	Ala	Thr	His	Cys 230	Arg	Glu	Leu	Met	Ala	Gln	His	Ile	Ala 240
Gln	Leu	Asp	Lys	Glu 245	Val	Ala	Glu	Arg	Glu	Ala	Ala	Gly	Lys	Ile	255

<210> 8542
 <211> 79
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (79)

<400> 8542
 Val Asp Cys Met Ala Met Arg Leu Asn Glu Asn Leu Asp Asp Asn Gly
 1 5 10 15
 Glu Met His Glu Ile Asn Val Thr Pro Phe Ile Asp Val Met Leu Val
 20 25 30
 Leu Leu Ile Ile Phe Met Val Ala Ala Pro Leu Ala Thr Val Asp Val
 35 40 45
 Lys Val Asn Leu Pro Ala Ser Ser Ser Gln Pro Gln Pro Arg Pro Glu
 50 55 60
 Lys Pro Ile Tyr Leu Ser Val Lys Ala Asp Lys Ser Met Phe Xaa
 65 70 75

<210> 8543
 <211> 234
 <212> PRT
 <213> Enterobacter cloacae

<400> 8543
 Pro Tyr Lys Arg Gln Pro Asn Ser Leu Glu Ile His Asn Phe Ile Thr
 1 5 10 15
 Ile Ala Thr Arg Thr Arg Pro Met Gln Lys Pro Glu Asn Val Pro Val
 20 25 30
 Thr Phe Ala Lys Asn Asp Val Glu Ile Ile Ala Arg Glu Thr Leu Tyr
 35 40 45
 Ser Gly Phe Phe Ser Met Glu Leu Tyr Arg Phe Arg His Arg Leu Phe
 50 55 60
 Asn Gly Glu Met Ser Gly Glu Ile Lys Arg Glu Ile Phe Glu Arg Gly
 65 70 75 80
 His Ala Ala Val Leu Leu Pro Tyr Asp Pro Val Arg Asp Glu Val Val
 85 90 95
 Leu Val Glu Gln Val Arg Ile Ala Ala Tyr Asp Thr Ser Glu Thr Pro
 100 105 110
 Trp Leu Leu Glu Met Val Ala Gly Met Ile Glu Glu Gly Glu Ser Val
 115 120 125
 Glu Asp Val Ala Arg Arg Glu Ala Leu Glu Glu Ala Gly Leu Val Val
 130 135 140
 Gly Arg Thr Lys Pro Val Leu Ser Tyr Leu Ala Ser Pro Gly Gly Thr
 145 150 155 160
 Thr Glu Arg Ser Ser Ile Met Val Gly Glu Val Asp Ala Thr Thr Ala
 165 170 175
 Glu Gly Ile His Gly Leu Ala Asp Glu Asn Glu Asp Ile Arg Val His
 180 185 190
 Val Val Ser Arg Glu Leu Ala Tyr Gln Trp Val Glu Glu Gly Lys Ile
 195 200 205
 Asp Asn Ala Ala Ser Val Ile Ala Leu Gln Trp Leu Gln Leu His Tyr
 210 215 220
 Gln Thr Leu Arg His Glu Trp Lys Lys
 225 230

<210> 8544
 <211> 453
 <212> PRT

<213> Enterobacter cloacae

<400> 8544

Pro Ile Ala Gly Ser Ser Leu Ala Asn Pro Glu Ala Asn Val Ser Cys
 1 5 10 15
 Arg Ser His Tyr Lys Asn Leu Ala Leu His Val Gly Glu Asp Asp Met
 20 25 30
 Lys Ser Thr Ser Thr Thr Asn Arg Thr Glu Tyr Tyr Lys Ile Ser Ser
 35 40 45
 Phe Ile Phe Leu Tyr Phe Phe Thr Trp Ser Ala Ser Ile Gly Leu Leu
 50 55 60
 Ala Ile Trp Leu Gly Gln Lys Ala Asn Leu Ser Gly Ser Val Ile Gly
 65 70 75 80
 Thr Val Phe Ala Val Asn Gly Ile Phe Ser Val Ile Leu Lys Pro Ile
 85 90 95
 Tyr Gly Tyr Ile Leu Asp Lys Ile Gly Met Ser Lys Tyr Leu Leu Tyr
 100 105 110
 Phe Val Val Ile Met Ser Ala Leu Met Ala Pro Phe Phe Ile Tyr Val
 115 120 125
 Tyr Gln Pro Leu Leu Met Ser Asn Thr Leu Leu Gly Ile Ile Ile Gly
 130 135 140
 Ala Leu Tyr Leu Ser Phe Ala Trp Tyr Ala Gly Val Ala Ala Cys Glu
 145 150 155 160
 Ser Tyr Ser Asp Arg Phe Ser Arg Leu Asn Gly Met Glu Phe Gly Gln
 165 170 175
 Ile Arg Met Trp Gly Ser Leu Gly Trp Ala Val Ala Ser Ser Phe Ser
 180 185 190
 Gly Leu Leu Phe Asn Leu Ser Pro Ala Tyr Asn Phe Ile Leu Gly Ser
 195 200 205
 Val Ala Ser Val Val Met Leu Ile Val Leu Leu Ser Leu Lys Val Asn
 210 215 220
 Thr Asn Ser Ala His Ala Gly Glu Val Leu Thr Lys Glu Lys Ile Ala
 225 230 235 240
 Pro Ser Asp Val Tyr Ala Leu Leu Arg Asn Arg Lys Phe Trp Ala Phe
 245 250 255
 Cys Leu Tyr Val Ala Gly Val Ala Trp Met Met Phe Ile Ala Glu Gln
 260 265 270
 Gln Phe Ser Arg Tyr Phe Val Thr Phe Phe Asp Asp Ile His Gln Gly
 275 280 285
 Asn Ala Val Phe Gly Tyr Leu Gly Thr Val Gln Ser Gly Met Glu Phe
 290 295 300
 Val Met Tyr Met Val Ile Pro Leu Phe Val Asn Phe Ile Gly Ala Lys
 305 310 315 320
 Arg Gly Leu Leu Ile Val Gly Leu Val Val Gly Ala Arg Leu Ile Ile
 325 330 335
 Ser Gly Met Cys Asp Ser His Leu Leu Ile Ser Val Leu Lys Pro Leu
 340 345 350
 Tyr Gly Leu Glu Ile Cys Leu Leu Val Ser Val Phe Lys Tyr Ile
 355 360 365
 Ala Glu His Phe Asp Lys Arg Val Asn Ala Thr Met Tyr Leu Leu Gly
 370 375 380
 Tyr Gln Ala Met Leu Tyr Val Gly Asn Val Val Val Ser Ser Pro Ala
 385 390 395 400
 Gly Tyr Met Tyr Asp Arg Ile Gly Phe Glu His Thr Tyr Ile Ile Met
 405 410 415
 Gly Ala Thr Ala Leu Thr Phe Thr Leu Ile Ser Ala Phe Thr Leu Ser
 420 425 430
 Ala Cys Gln Ser Lys Trp Arg Gly Ala Arg Ala Leu Asn Val Ala Glu
 435 440 445
 Thr Ser Thr Arg
 450

<210> 8545
 <211> 101
 <212> PRT
 <213> Enterobacter cloacae

<400> 8545
 Leu Leu Leu Ile Pro Gly Tyr Gln Leu Ser Lys Asn Phe Arg Glu Met
 1 5 10 15
 Leu Ala Ile Phe Cys Asp Ile Ala Arg Asp Val Arg His Phe Asn Tyr
 20 25 30
 Val Val Asp Asp Lys Gly Arg Gln Arg Leu His Ser Gln Glu Leu Ile
 35 40 45
 Arg Leu Val Glu Arg Gln Ile Arg Ala Val Tyr Ala His Ala Phe Glu
 50 55 60
 Glu Leu Ile Phe Leu Gly Glu Gly Phe Gln Arg Arg Val Pro Gly Gln
 65 70 75 80
 Gly Glu His Ile Phe Phe Ala Leu Asn Gln Thr Ala Arg Thr Val Phe
 85 90 95
 Phe Arg Arg Ile
 100

<210> 8546
 <211> 139
 <212> PRT
 <213> Enterobacter cloacae

<400> 8546
 Thr Gly Ala Ala Val Ala Gly Ile Gln Arg Thr Val Thr Phe Gly Lys
 1 5 10 15
 His Ile Val His Val Phe Phe His Gly Pro Arg Cys Ala His Pro Pro
 20 25 30
 Ala Arg His Leu Pro Asp His His Val Gly Pro Gln Glu Val Leu His
 35 40 45
 Phe Gly Leu His Val Val Ile Ala Val Arg Ala His Asp Leu Asn Ile
 50 55 60
 Met Ser Gly Val Ala Gln Glu Thr Ile Arg Asp Leu Gly Gln Gly Val
 65 70 75 80
 Ile Glu Leu Ala Phe Arg Val Arg Lys Phe Phe Arg Ala Val Asp Asn
 85 90 95
 Gln Asn Val Ala His Tyr Leu Ser Ser Met Met Arg Val Cys Arg Val
 100 105 110
 Phe Tyr Ala Arg Gly Arg Ser Gly Lys Ile Ser Lys Met Cys Lys Val
 115 120 125
 Phe Cys Ala Gln Arg Asn Asn Leu Thr Ser
 130 135

<210> 8547
 <211> 513
 <212> PRT
 <213> Enterobacter cloacae

<400> 8547
 Trp Leu Ser Ile Leu Arg Ser Ser Ile Lys Lys Leu Gln Ser Glu Lys
 1 5 10 15
 Pro Pro Val Arg Phe Asn Pro Val Ser Cys Lys Gly Lys Arg Ile Pro
 20 25 30
 Ala Leu Leu Val Val Ser Asp Gly Ala Tyr Met Ser Leu Ser Arg Arg
 35 40 45
 Gln Phe Ile Gln Ala Ser Gly Ile Ala Leu Cys Ala Gly Ala Ile Pro
 50 55 60

Arg Thr Ala Ser Ala Ala Gly Gln Gln Gln Pro Leu Pro Ile Pro Pro
 65 70 75 80
 Leu Ile Glu Ser Arg Arg Gly Gln Pro Leu Phe Leu Thr Leu Gln Arg
 85 90 95
 Ser His Trp Ser Phe Thr Gln Gly Thr Arg Ala Gln Val Trp Gly Ile
 100 105 110
 Asn Gly Arg Tyr Leu Gly Pro Thr Ile Arg Val Trp Asn Gly Asp Asp
 115 120 125
 Val Lys Leu Ile Tyr Ser Asn Arg Thr Thr Glu Asn Val Ala Met Thr
 130 135 140
 Val Ser Gly Leu Gln Val Pro Gly Pro Leu Ile Gly Gly Ala Ala Arg
 145 150 155 160
 Met Met Ser Pro Asn Ala Asp Trp Ala Pro Val Leu Pro Ile Arg Gln
 165 170 175
 Ser Ala Ala Thr Leu Trp Tyr His Ala Asn Thr Pro Asn Arg Thr Ala
 180 185 190
 Gln Gln Val Tyr Asn Gly Leu Ala Gly Met Trp Leu Ile Glu Asp Glu
 195 200 205
 Val Ser Lys Thr Leu Pro Ile Pro Asn His Tyr Gly Val Asp Asp Phe
 210 215 220
 Pro Ile Ile Ile Gln Asp Lys Arg Leu Asp Asn Phe Gly Thr Pro Glu
 225 230 235 240
 Tyr Ser Glu Pro Gly Ser Gly Gly Phe Val Gly Asp Thr Leu Leu Val
 245 250 255
 Asn Gly Ala Gln Ser Pro Tyr Val Glu Val Ser Arg Gly Trp Val Arg
 260 265 270
 Leu Arg Leu Leu Asn Ala Ser Asn Ser Arg Arg Tyr Gln Leu Gln Met
 275 280 285
 Ser Asp Gly Arg Ala Leu His Val Ile Ser Gly Asp Gln Gly Leu Leu
 290 295 300
 Pro Ala Pro Val Ser Val Lys Gln Leu Ala Leu Ala Pro Gly Glu Arg
 305 310 315 320
 Arg Glu Ile Leu Val Asp Met Thr Asn Gly Asp Glu Val Ser Val Thr
 325 330 335
 Cys Gly Glu Ala Ala Ser Ile Val Asp Arg Ile Arg Gly Phe Phe Glu
 340 345 350
 Pro Ser Ser Val Leu Val Ser Thr Leu Val Leu Thr Leu Arg Pro Thr
 355 360 365
 Gly Leu Leu Pro Leu Val Thr Asp Ser Leu Pro Met Arg Leu Leu Pro
 370 375 380
 Gln Glu Ile Val Thr Gly Pro Ala Val Arg Ser Arg Asp Ile Ser Leu
 385 390 395 400
 Gly Asp Asp Pro Gly Ile Asn Gly Ala Leu Trp Asp Val Asn Arg Ile
 405 410 415
 Asp Ile Thr Ala Gln Gln Gly Thr Trp Glu Arg Trp Thr Val Arg Ser
 420 425 430
 Glu Met Pro Gln Ser Phe His Ile Glu Gly Val Ser Phe Leu Ile Arg
 435 440 445
 Asn Val Asn Gly Ala Met Pro Phe Pro Glu Asp Arg Gly Trp Lys Asp
 450 455 460
 Thr Val Trp Val Asp Gly Gln Val Glu Leu Leu Val Tyr Tyr Gly Gln
 465 470 475 480
 Pro Ser Trp Pro His Phe Pro Phe Leu Phe His Ser Gln Thr Leu Glu
 485 490 495
 Met Met Asp Arg Gly Ser Val Gly Gln Met Leu Val Asn Pro Ala Pro
 500 505 510

<210> 8548

<211> 206

<212> PRT

<213> Enterobacter cloacae

<400> 8548

```

Ser Gly Gly Arg Gln Arg Gln His Gly Ala His Arg Asp Arg Thr Ala
1      5      10      15
Asp Val Ala Ala Ala Arg Phe Gln Asn Met Pro Arg Val Asp Ala Val
20     25     30
Ser Val Met Gly Arg Arg Arg Asp Glu Phe Gly Ala Val Gln His Gly
35     40     45
Thr Ala Ala His Arg Gln Gln Glu Gly Asp Leu Leu Leu Ala Gly Asp
50     55     60
Phe Tyr Arg Val His Gln Arg Phe Ile Arg Arg Val Arg Leu Asp Thr
65     70     75     80
Ala Glu Leu Ala His Val Gln Thr Phe Gln Ser Ala Val His Leu Ile
85     90     95
Gln Tyr Ala Gly Phe Phe His Ala Ala Ala Val Gly Asn Gln Asp
100    105    110
Ala Gly Val Arg Arg Asp Leu Arg Ala Gln Val Ser Asp Ser Val Phe
115    120    125
Thr Lys Gln Asn Ala Gly Trp Gly Met Lys Ile Lys Val Val His Gly
130    135    140
Leu Phe Pro Val Val Gly Lys Lys Ser Trp Trp Arg Arg Gln Pro
145    150    155    160
Asp Ala Ala His Cys Gly Gly Gln Ala Leu Ser Ser Gln Cys Thr Phe
165    170    175
Leu Pro Met Ser Cys Pro Phe Leu Gln Arg Ala Gly Glu Thr Val Arg
180    185    190
Lys Cys Ala His Cys Gln Arg Arg Lys Pro Tyr Pro Glu
195    200    205

```

<210> 8549

<211> 302

<212> PRT

<213> Enterobacter cloacae

<400> 8549

```

Leu Lys Met Asn Arg Asp Ala Ile Cys Arg Gln Leu Thr Ser Gln Ile
1      5      10      15
Lys Thr Leu Ile Asp Asn Gly Asn Asp Ser Ala Glu Leu Leu Pro Asp
20     25     30
Ile Arg Leu Leu Tyr Gly Thr Gln Pro Gly Thr Arg Thr Pro Val Met
35     40     45
Tyr Gln Pro Gly Ile Val Phe Leu Phe Ser Gly His Lys Ile Gly Tyr
50     55     60
Ile Asn Glu Arg Val Phe Arg Tyr Asp Thr Asn Glu Tyr Leu Leu Leu
65     70     75     80
Thr Val Pro Leu Pro Phe Glu Cys Glu Thr Phe Ala Thr Glu Glu Val
85     90     95
Pro Leu Ala Gly Ile Arg Val Asn Val Asp Ile Leu Gln Leu Gln Glu
100    105    110
Leu Leu Met Asp Ile Gly Glu Asp Glu Leu Phe Arg Pro Ser Met Ala
115    120    125
Ala Ser Gly Ile Asn Ser Ala Thr Leu Ser Glu Glu Ile Leu Cys Ala
130    135    140
Ile Glu Arg Leu Leu Asp Val Met Glu Arg Pro Leu Asp Ala Arg Ile
145    150    155    160
Leu Gly Lys Gln Ile Ile Arg Glu Ile Leu Tyr His Val Leu Leu Gly
165    170    175
Pro Gly Gly Gly Ala Leu Leu Ala Leu Val Ser Arg Gln Thr His Phe
180    185    190

```

Ser Leu Ile Ser Arg Val Leu Lys Arg Ile Glu Ser Gln Tyr Thr Glu
 195 200 205
 Asn Leu Ser Val Asp Gln Leu Ala Ala Glu Ala Asn Met Ser Val Ser
 210 215 220
 Ala Phe His His Asn Phe Lys Ser Val Thr Ser Thr Ser Pro Leu Gln
 225 230 235 240
 Tyr Leu Lys Thr Tyr Arg Leu His Lys Ala Arg Met Leu Met Ile His
 245 250 255
 Asp Gly Met Lys Ala Ser Ala Ala Ala Met Arg Val Gly Tyr Glu Ser
 260 265 270
 Ala Ser Gln Phe Ser Arg Glu Phe Lys Arg Tyr Phe Gly Val Thr Pro
 275 280 285
 Gly Glu Asp Ala Ser Arg Ile Arg Thr Met Gln Gly Ala
 290 295 300

<210> 8550

<211> 242

<212> PRT

<213> Enterobacter cloacae

<400> 8550

Ala Ala Leu Arg Gln Leu Tyr Ala Gly Tyr His Arg Thr Gly Leu Ala
 1 5 10 15
 Leu Ala Gly Ala Ala Cys Arg Trp Leu Ala Asp His Arg Ser Leu Pro
 20 25 30
 Ser Gly Arg Gly Thr Ile Pro Pro Gly Tyr Arg Phe Gly Arg Leu Leu
 35 40 45
 Met Ser Thr Leu Leu Tyr Leu His Gly Phe Asn Ser Ser Pro Arg Ser
 50 55 60
 Ala Lys Ala Thr Gln Leu Arg Gln Trp Leu Ser Ala His His Pro His
 65 70 75 80
 Val Glu Met Ile Ile Pro Gln Leu Pro Pro Tyr Pro Ala Asp Ala Ala
 85 90 95
 Glu Met Leu Glu Ser Leu Val Leu Glu His Gly Gly Glu Ser Phe Gly
 100 105 110
 Val Val Gly Ser Ser Leu Gly Gly Tyr Tyr Ala Thr Trp Leu Ser Gln
 115 120 125
 Cys Phe Met Leu Pro Ala Val Val Val Asn Pro Ala Val Arg Pro Phe
 130 135 140
 Glu Leu Leu Arg Asp Phe Leu Gly Glu Asn Glu Asn Pro Tyr Thr Gly
 145 150 155 160
 Gln Gln Tyr Val Leu Glu Ser Arg His Ile Tyr Asp Leu Lys Val Met
 165 170 175
 Gln Val Asp Pro Leu Glu Ala Pro Asp Leu Ile Trp Leu Leu Gln Gln
 180 185 190
 Thr Gly Asp Glu Val Leu Asp Tyr Arg Gln Ala Val Ala Tyr Tyr Ala
 195 200 205
 Ser Cys Arg Gln Thr Val Glu Gly Gly Asn His Ala Phe Thr Gly
 210 215 220
 Phe Glu Asp His Phe Thr Gln Ile Val Asp Phe Leu Gly Leu His Ser
 225 230 235 240
 His

<210> 8551

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 8551

Gly Leu Pro Cys Leu Met Asp Cys Glu Thr Thr Leu Lys Gly Glu Ile

Gly	Ala	Pro	Asp	Asp	Pro	Lys	Ser	Phe	Ala	Ala	Met	Arg	Tyr	Thr	Glu
		115					120					125			
Ser	Arg	Leu	Ser	Lys	Tyr	Ala	Glu	Val	Leu	Leu	Gly	Glu	Leu	Gly	Gln
		130				135					140				
Gly	Thr	Val	Asp	Trp	Val	Pro	Asn	Phe	Asp	Gly	Thr	Met	Gln	Glu	Pro
145					150					155					160
Lys	Met	Leu	Pro	Ala	Arg	Leu	Pro	Asn	Ile	Leu	Leu	Asn	Gly	Thr	Thr
				165					170					175	
Gly	Ile	Ala	Val	Gly	Met	Ala	Thr	Asp	Ile	Pro	Pro	His	Asn	Leu	Arg
			180					185					190		
Glu	Val	Ala	Lys	Ala	Ala	Ile	Thr	Leu	Ile	Glu	Gln	Pro	Lys	Thr	Ser
		195					200					205			
Leu	Asp	Asp	Leu	Leu	Asp	Ile	Val	Gln	Gly	Pro	Asp	Tyr	Pro	Thr	Glu
	210					215					220				
Ala	Glu	Ile	Ile	Thr	Ser	Arg	Ala	Glu	Ile	Arg	Lys	Ile	Tyr	Gln	Asn
225					230					235					240
Gly	Arg	Gly	Ser	Val	Arg	Met	Arg	Ala	Val	Trp	Asn	Lys	Glu	Asp	Gly
				245					250					255	
Ala	Val	Val	Ile	Thr	Ala	Leu	Pro	His	Gln	Val	Ser	Gly	Ala	Lys	Val
			260					265					270		
Leu	Glu	Gln	Ile	Ala	Ser	Gln	Met	Arg	Asn	Lys	Lys	Leu	Pro	Met	Val
		275					280					285			
Asp	Asp	Leu	Arg	Asp	Glu	Ser	Asp	His	Glu	Asn	Pro	Thr	Arg	Leu	Val
	290					295					300				
Ile	Val	Pro	Arg	Ser	Asn	Arg	Val	Asp	Met	Glu	Gln	Val	Met	Asn	His
305					310					315					320
Leu	Phe	Ala	Thr	Thr	Asp	Leu	Glu	Lys	Ser	Tyr	Arg	Ile	Asn	Leu	Asn
				325					330					335	
Met	Ile	Gly	Leu	Asp	Gly	Arg	Pro	Ala	Val	Lys	Asn	Leu	Leu	Glu	Ile
			340					345					350		
Leu	Thr	Glu	Trp	Leu	Ala	Phe	Arg	Arg	Asp	Thr	Val	Arg	Arg	Arg	Leu
		355					360					365			
Asn	His	Arg	Leu	Glu	Lys	Val	Leu	Lys	Arg	Leu	His	Ile	Leu	Glu	Gly
	370					375					380				
Leu	Leu	Val	Ala	Phe	Leu	Asn	Ile	Asp	Glu	Val	Ile	Glu	Ile	Ile	Arg
385					390					395					400
Thr	Glu	Asp	Glu	Pro	Lys	Pro	Ala	Leu	Met	Ser	Arg	Phe	Gly	Ile	Ser
				405					410					415	
Glu	Thr	Gln	Ala	Glu	Ala	Ile	Leu	Glu	Leu	Lys	Leu	Arg	His	Leu	Ala
			420					425					430		
Arg	Leu	Glu	Glu	Met	Lys	Ile	Arg	Gly	Glu	Gln	Asn	Glu	Leu	Glu	Lys
		435					440					445			
Glu	Arg	Asp	Gln	Leu	Gln	Ala	Ile	Leu	Ala	Ser	Glu	Arg	Lys	Met	Asn
	450					455					460				
Thr	Leu	Leu	Lys	Lys	Glu	Leu	Gln	Ala	Asp	Ala	Asp	Ala	Phe	Gly	Asp
465					470					475					480
Asp	Arg	Arg	Ser	Pro	Leu	His	Glu	Arg	Glu	Glu	Ala	Lys	Ala	Met	Asn
				485					490					495	
Glu	His	Asp	Met	Leu	Pro	Ser	Glu	Pro	Val	Thr	Ile	Val	Leu	Ser	Gln
			500					505					510		
Ser	Gly	Trp	Val	Arg	Ser	Ala	Lys	Gly	His	Asp	Ile	Asp	Ala	Pro	Gly
		515					520					525			
Leu	Ser	Tyr	Lys	Ser	Gly	Asp	Ser	Phe	Lys	Ala	Ala	Val	Lys	Gly	Lys
	530					535					540				
Ser	Asn	Gln	Pro	Val	Ala	Phe	Ile	Asp	Ser	Thr	Gly	Arg	Ser	Tyr	Ala
545					550					555					560
Ile	Asp	Pro	Ile	Thr	Leu	Pro	Ser	Ala	Arg	Gly	Gln	Gly	Glu	Pro	Leu
				565					570					575	
Thr	Gly	Lys	Leu	Thr	Leu	Pro	Pro	Gly	Ala	Thr	Val	Glu	His	Met	Leu
			580					585					590		
Met	Glu	Ala	Asp	Asp	Gln	Lys	Leu	Leu	Met	Ala	Ser	Asp	Ala	Gly	Tyr

1				5				10					15		
Lys	Met	Lys	Lys	Phe	Ala	Ala	Ile	Ala	Ala	Ile	Met	Met	Met	Thr	Thr
			20					25					30		
Ala	Pro	Val	Phe	Ala	Ala	Gln	Gly	Gly	Phe	Ser	Gly	Pro	Ser	Ala	Thr
		35					40					45			
Gln	Asn	Gln	Thr	Gln	Thr	Gln	Gln	Gly	Gly	Phe	Val	Asp	Asn	Asn	Ala
	50					55					60				
Asn	Leu	Thr	Thr	Ala	Ala	Lys	Val	Lys	Asp	Leu	Lys	Asp	Asp	Ala	Trp
65					70					75					80
Val	Lys	Leu	Arg	Gly	Asn	Ile	Thr	Glu	Arg	Leu	Ser	Asp	Asp	Arg	Tyr
				85				90						95	
Thr	Phe	Arg	Asp	Glu	Ser	Gly	Thr	Val	Val	Val	Glu	Ile	Asp	His	Lys
			100					105					110		
Arg	Trp	Asn	Gly	Val	Thr	Val	Thr	Pro	Gln	Asp	Lys	Val	Glu	Leu	Gln
		115					120					125			
Gly	Lys	Ile	Asp	Lys	Asp	Trp	Asn	Glu	Phe	Glu	Ile	Asp	Val	Lys	Gln
	130					135					140				
Val	Ile	Lys	Leu	Asn	Lys										
145					150										

<210> 8552

<211> 755

<212> PRT

<213> Enterobacter cloacae

<400> 8552

Gly	Gln	Gln	Pro	Ala	Gln	Tyr	Pro	Phe	Ile	Ser	Pro	Gly	Lys	Pro	Ala
1				5				10						15	
Tyr	Asn	Pro	Ala	Pro	Phe	Val	Tyr	Phe	Phe	Phe	Gly	Ser	Ile	Met	Ser
		20						25					30		
Ala	Ile	Ser	Leu	Ile	Gln	Pro	Asp	Arg	Asp	Leu	Phe	Ser	Trp	Pro	Gln
		35					40					45			
Tyr	Trp	Ala	Ala	Cys	Phe	Gly	Pro	Ala	Pro	Phe	Leu	Pro	Met	Ser	Arg
	50					55					60				
Glu	Glu	Met	Asp	Gln	Leu	Gly	Trp	Asp	Ser	Cys	Asp	Ile	Ile	Leu	Val
65					70					75					80
Thr	Gly	Asp	Ala	Tyr	Val	Asp	His	Pro	Ser	Phe	Gly	Met	Ala	Ile	Cys
				85				90						95	
Gly	Arg	Met	Leu	Glu	Ala	Gln	Gly	Phe	Arg	Val	Gly	Ile	Ile	Ser	Gln
			100					105					110		
Pro	Asp	Trp	Asn	Ser	Lys	Asp	Asp	Phe	Met	Arg	Leu	Gly	Lys	Pro	Asn
		115					120					125			
Leu	Phe	Phe	Gly	Val	Thr	Ala	Gly	Asn	Met	Asp	Ser	Met	Ile	Asn	Arg
	130					135					140				
Tyr	Thr	Ala	Asp	Arg	Lys	Leu	Arg	His	Asp	Asp	Ala	Tyr	Thr	Ala	Asp
145					150				155						160
Asn	Val	Ala	Gly	Lys	Arg	Pro	Asp	Arg	Ala	Thr	Leu	Val	Tyr	Thr	Gln
				165					170					175	
Arg	Cys	Lys	Glu	Ala	Trp	Lys	Asp	Val	Pro	Val	Ile	Leu	Gly	Gly	Ile
			180					185					190		
Glu	Ala	Ser	Leu	Arg	Arg	Thr	Ala	His	Tyr	Asp	Tyr	Trp	Ser	Asp	Thr
		195					200					205			
Val	Arg	Arg	Ser	Val	Leu	Val	Asp	Ser	Lys	Ala	Asp	Met	Leu	Ile	Phe
		210					215				220				
Gly	Asn	Gly	Glu	Arg	Pro	Leu	Val	Glu	Val	Ala	His	Arg	Leu	Ala	Gln
225					230					235					240
Gly	Glu	Ala	Val	Ser	Glu	Ile	Arg	Asp	Val	Arg	Asn	Thr	Ala	Ile	Met
				245					250					255	
Val	Lys	Glu	Ala	Leu	Pro	Gly	Trp	Ser	Gly	Val	Asp	Ser	Arg	Ile	Ile
			260					265					270		
Asp	Met	Pro	Gly	Lys	Ile	Asp	Pro	Ile	Pro	His	Pro	Tyr	Gly	Asp	Asp

275 280 285
 Leu Pro Cys Ala Asp Asn Lys Pro Val Glu Pro Lys Lys Ala Glu Ala
 290 295 300
 Lys Ala Val Val Val Gln Pro Pro Arg Pro Lys Pro Trp Glu Lys Thr
 305 310 315 320
 Tyr Val Leu Leu Pro Ser Tyr Glu Lys Val Lys Ser Asp Lys Val Leu
 325 330 335
 Tyr Ala His Ala Ser Arg Ile Leu His His Glu Thr Asn Pro Gly Cys
 340 345 350
 Ala Arg Ala Leu Met Gln Lys His Gly Glu Arg Tyr Ile Trp Val Asn
 355 360 365
 Pro Pro Ala Ile Pro Leu Ser Thr Glu Glu Met Asp Ser Val Phe Ala
 370 375 380
 Leu Pro Tyr Lys Arg Val Pro His Pro Ser Tyr Gly Ser Ser Arg Ile
 385 390 395 400
 Pro Ala Tyr Glu Met Ile Arg Phe Ser Ile Asn Ile Met Arg Gly Cys
 405 410 415
 Phe Gly Gly Cys Ser Phe Cys Ser Ile Thr Glu His Glu Gly Arg Ile
 420 425 430
 Ile Gln Ser Arg Ser Glu Glu Ser Ile Val Asn Glu Ile Glu Ala Ile
 435 440 445
 Arg Asp Thr Val Pro Gly Phe Thr Gly Val Ile Ser Asp Leu Gly Gly
 450 455 460
 Pro Thr Ala Asn Met Tyr Met Leu Arg Cys Lys Ser Pro Arg Ala Glu
 465 470 475 480
 Gln Thr Cys Arg Arg Leu Ser Cys Val Tyr Pro Ser Ile Cys Glu His
 485 490 495
 Met Asp Thr Asn His Glu Pro Thr Ile Asn Leu Tyr Arg Arg Ala Arg
 500 505 510
 Asp Leu Lys Gly Ile Lys Lys Ile Leu Ile Ala Ser Gly Val Arg Tyr
 515 520 525
 Asp Ile Ala Val Glu Asp Pro Arg Tyr Ile Lys Glu Leu Ala Thr His
 530 535 540
 His Val Gly Gly Tyr Leu Lys Ile Ala Pro Glu His Thr Glu Glu Gly
 545 550 555 560
 Pro Leu Ser Lys Met Met Lys Pro Gly Met Gly Ser Tyr Asp Arg Phe
 565 570 575
 Lys Gln Leu Phe Asp Thr Tyr Ser Lys Gln Ala Gly Lys Glu Gln Tyr
 580 585 590
 Leu Ile Pro Tyr Phe Ile Ser Ala His Pro Gly Thr Arg Asp Glu Asp
 595 600 605
 Met Val Asn Leu Ala Leu Trp Leu Lys Gln Arg Arg Phe Arg Leu Asp
 610 615 620
 Gln Val Gln Asn Phe Tyr Pro Ser Pro Leu Ala Asn Ser Thr Thr Met
 625 630 635 640
 Tyr Tyr Thr Gly Lys Asn Pro Leu Ser Lys Ile Gly Tyr Lys Ser Glu
 645 650 655
 Asp Val Val Val Pro Lys Gly Asp Lys Gln Arg Arg Leu His Lys Ala
 660 665 670
 Leu Leu Arg Tyr His Asp Pro Lys Asn Trp Pro Leu Ile Arg Gln Ala
 675 680 685
 Leu Glu Glu Met Gly Lys Lys His Leu Ile Gly Ser Arg Arg Asp Cys
 690 695 700
 Leu Val Pro Ala Pro Thr Leu Glu Glu Met Arg Glu Ala Arg Arg Gln
 705 710 715 720
 Asn Arg Asn Thr Arg Pro Ala Leu Thr Lys His Thr Pro Ile Ala His
 725 730 735
 Gln Arg Ser Asn Gly Val Ala Gly Thr Lys Lys Asn Val Lys Arg Lys
 740 745 750
 Thr Gly
 755

<210> 8553
 <211> 251
 <212> PRT
 <213> Enterobacter cloacae

<400> 8553
 Phe Ala Ser Trp Arg Tyr Arg Val Gly Asn Asn Leu Met Gln Thr Asp
 1 5 10 15
 Leu Ser Val Trp Gly Met Tyr Gln His Ala Asp Ile Val Val Lys Ile
 20 25 30
 Val Met Ile Gly Leu Ile Leu Ala Ser Val Ile Thr Trp Ala Ile Phe
 35 40 45
 Phe Ser Lys Ser Ala Glu Leu Ser Gln Lys Arg Arg Leu Lys Arg
 50 55 60
 Glu Gln Lys Gln Leu Ala Glu Ala Arg Ser Leu Asp Gln Ala Ser Asp
 65 70 75 80
 Ile Thr Ser Ser Phe His Ala Lys Ser Leu Thr Thr Leu Leu Val Asn
 85 90 95
 Glu Ala Gln Asn Glu Leu Glu Leu Ser Ala Gly Ser Glu Asp Asn Glu
 100 105 110
 Gly Ile Lys Glu Arg Thr Gly Phe Arg Leu Glu Arg Arg Val Ala Ala
 115 120 125
 Val Gly Arg His Met Gly Arg Gly Asn Gly Tyr Leu Ala Thr Ile Gly
 130 135 140
 Ala Ile Ser Pro Phe Val Gly Leu Phe Gly Thr Val Trp Gly Ile Met
 145 150 155 160
 Asn Ser Phe Ile Gly Ile Ala Gln Thr Gln Thr Thr Asn Leu Ala Val
 165 170 175
 Val Ala Pro Gly Ile Ala Glu Thr Leu Leu Ala Thr Ala Ile Gly Leu
 180 185 190
 Val Ala Ala Ile Pro Ala Val Val Ile Tyr Asn Ile Phe Ala Arg Met
 195 200 205
 Ile Gly Ser Tyr Lys Ala Thr Leu Gly Asp Val Ala Ala Gln Val Leu
 210 215 220
 Leu Leu Gln Ser Arg Asp Leu Asp Leu Asn Ala Ser Ala Val Lys Pro
 225 230 235 240
 Val His Ala Ala Ser Lys Leu Arg Val Gly
 245 250

<210> 8554
 <211> 449
 <212> PRT
 <213> Enterobacter cloacae

<400> 8554
 Cys Arg Asn Phe Arg Ser Leu Ser Leu Arg Leu Arg Ser Lys Asn Phe
 1 5 10 15
 Leu Cys Glu Phe Leu Ile Ile Phe Ser Ala Tyr Ser Ile Ser Ile Arg
 20 25 30
 Met His Ile Leu Thr Ile Val Val Val Trp Thr Ser Arg Arg Ile Lys
 35 40 45
 Ile Gly Leu Ala Asn Met Thr Lys Lys Gln Leu Glu Thr Thr Leu Val
 50 55 60
 Gln Ala Gly Arg Ser Lys Lys Tyr Thr Gln Gly Ser Val Asn Ser Val
 65 70 75 80
 Ile Gln Arg Ala Ser Ser Leu Val Phe Asp Thr Val Glu Asp Lys Lys
 85 90 95
 Ile Ala Thr Arg Asn Arg Ala Lys Gly Gly Leu Phe Tyr Gly Arg Arg
 100 105 110
 Gly Thr Leu Thr His Phe Ser Leu Gln Glu Ala Met Cys Glu Leu Glu

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<210> 8555
<211> 280
<212> PRT
<213> Enterobacter cloacae
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<400> 8555															
Pro	Val	Thr	Ser	Ile	Phe	Arg	Thr	Phe	Leu	Gly	Gln	Gln	His	Val	His
1				5					10					15	
His	Gly	Val	Ser	Leu	Leu	Phe	Ile	Phe	Ile	Ala	Asp	Gly	Gln	Leu	His
			20					25					30		
Gln	Thr	Ala	Gly	Ile	Arg	Ile	Gln	Arg	Gly	Phe	Thr	Gln	Leu	His	Arg
		35					40					45			
Val	His	Leu	Thr	Gln	Pro	Leu	Lys	Ala	Leu	Asn	Val	Arg	Phe	Ala	Leu
	50					55					60				
Leu	Ala	Leu	Lys	Leu	Phe	Gln	His	Ala	Arg	Phe	Leu	Phe	Phe	Arg	Gln
65					70					75					80
Cys	Ile	Val	Asn	Phe	Phe	Ala	Glu	Val	Asp	Ser	Val	Gln	Arg	Arg	Gln

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<210> 8556
<211> 126
<212> PRT
<213> Enterobacter cloacae
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<210> 8557
<211> 223
<212> PRT
<213> Enterobacter cloacae
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<400> 8557
 Ile Gly Phe Ser Gly Arg Gly Cys Gly Trp Leu Glu Asp Ala Gly Arg
 1 5 10 15
 Phe Thr Phe Thr Ser Thr Val Ala Ser Gly Ala Ala Thr Ile Lys Ile
 20 25 30
 Ile Ser Arg Thr Ser Met Thr Ser Ile Asn Gly Val Thr Leu Ile Ser
 35 40 45

Cys	Ile	Ser	Pro	Leu	Ser	Ser	Arg	Phe	Ser	Leu	Arg	Arg	Ile	Ala	Ile
50						55					60				
Gln	Ser	Thr	Tyr	Ala	Gln	Phe	Gly	Arg	Arg	Met	Asn	Arg	Phe	Asn	Gly
65					70					75					80
Ala	Gly	Val	Gln	Val	Gln	Ile	Ala	Ala	Leu	Gln	Gln	Gln	Asn	Leu	Arg
				85					90					95	
Gly	Asn	Val	Thr	Gln	Cys	Gly	Phe	Val	Thr	Ala	Asn	His	Ala	Arg	Glu
			100					105					110		
Asp	Val	Ile	Asp	Asn	Asn	Arg	Arg	Asp	Ser	Gly	Asn	Gln	Thr	Asp	Ser
		115					120					125			
Arg	Cys	Gln	Gln	Arg	Phe	Cys	Asp	Thr	Arg	Arg	Asp	Asp	Arg	Lys	Val
	130					135					140				
Ser	Gly	Leu	Arg	Leu	Gly	Asp	Thr	Asp	Lys	Ala	Val	His	Asp	Ala	Pro
145					150					155					160
Asp	Gly	Thr	Glu	Gln	Ala	Asp	Glu	Arg	Gly	Asp	Ser	Ala	Asp	Ser	Arg
				165					170					175	
Gln	Val	Ala	Val	Thr	Ala	Ala	His	Met	Thr	Thr	His	Gly	Arg	Asn	Ala
			180					185						190	
Thr	Leu	Gln	Thr	Glu	Ala	Gly	Thr	Leu	Phe	Asn	Ala	Phe	Val	Ile	Phe
	195						200					205			
Thr	Ala	Cys	Gly	Glu	Phe	Gln	Leu	Val	Leu	Arg	Phe	Val	His		
	210					215					220				

<210> 8558

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 8558

Arg	Tyr	Ile	Cys	Cys	Ser	Thr	Gly	Lys	Ser	Met	Ala	Val	Ile	Gln	Asn
1				5					10					15	
Ile	Ile	Thr	Ala	Leu	Trp	Gln	His	Asp	Phe	Ala	Ala	Leu	Ala	Asp	Pro
			20					25					30		
His	Val	Val	Gly	Ile	Val	Tyr	Phe	Val	Met	Phe	Ala	Thr	Leu	Phe	Leu
		35					40					45			
Glu	Asn	Gly	Leu	Leu	Pro	Ala	Ser	Phe	Leu	Pro	Gly	Asp	Ser	Leu	Leu
	50					55					60				
Leu	Leu	Ala	Gly	Ala	Leu	Ile	Gly	Lys	Gly	Val	Met	Asp	Phe	Ala	Pro
65					70					75					80
Thr	Met	Val	Ile	Leu	Thr	Ser	Ala	Ala	Ser	Leu	Gly	Cys	Trp	Leu	Ser
				85					90					95	
Tyr	Leu	Gln	Gly	Arg	Trp	Leu	Gly	Asn	Thr	Arg	Val	Val	Lys	Gly	Trp
			100					105					110		
Leu	Ala	Gln	Leu	Pro	His	Lys	Tyr	His	Gln	Arg	Ala	Thr	Cys	Met	Phe
		115					120					125			
Asp	Arg	His	Gly	Leu	Leu	Ala	Leu	Leu	Ala	Gly	Arg	Phe	Leu	Ala	Phe
	130					135					140				
Val	Arg	Thr	Leu	Leu	Pro	Thr	Met	Ala	Gly	Ile	Ser	Gly	Leu	Ser	Asn
145					150					155					160
Arg	Arg	Phe	Gln	Phe	Phe	Asn	Trp	Leu	Ser	Ala	Leu	Leu	Trp	Val	Gly
			165					170						175	
Val	Val	Thr	Thr	Leu	Gly	Tyr	Ala	Leu	Asn	Met	Ile	Pro	Phe	Val	Lys
			180					185					190		
Arg	His	Glu	Asp	Gln	Val	Met	Thr	Phe	Leu	Met	Val	Leu	Pro	Ile	Phe
	195						200					205			
Leu	Leu	Val	Ala	Gly	Leu	Val	Gly	Thr	Ile	Ala	Val	Val	Ile	Lys	Lys
	210					215					220				
Lys	Tyr	Cys	Ser	Ala											
225						230									

<210> 8559

<211> 451
 <212> PRT
 <213> Enterobacter cloacae

<400> 8559

Arg	Met	Lys	Leu	Thr	Gln	Arg	Leu	Ser	Leu	Lys	Leu	Arg	Leu	Thr	Leu
1				5					10					15	
Leu	Phe	Leu	Leu	Leu	Ser	Leu	Ala	Ala	Trp	Phe	Ala	Ala	Ser	Val	Val
		20					25						30		
Ala	Trp	His	Gln	Thr	Thr	Asp	Lys	Leu	Asp	Lys	Leu	Phe	Asp	Thr	Gln
		35					40					45			
Gln	Met	Leu	Phe	Ala	Lys	Arg	Leu	Leu	Thr	Met	Asp	Val	Asp	Glu	Leu
	50					55					60				
Arg	Ala	Pro	Glu	Arg	Met	Arg	Glu	Val	Pro	Lys	Lys	Ala	Lys	His	Gly
65					70					75					80
His	Leu	Asp	Asp	Asp	Ala	Leu	Ala	Phe	Ala	Ile	Phe	Thr	Ala	Asp	Gly
			85						90					95	
Ser	Met	Val	Leu	Asn	Asp	Gly	Glu	Asn	Gly	Arg	Asp	Ile	Pro	Tyr	Leu
		100						105					110		
Tyr	Arg	Arg	Asp	Gly	Phe	Asp	Asp	Gly	Arg	Leu	Gln	Asp	Asp	Asn	Asp
	115						120					125			
Glu	Trp	Arg	Phe	Leu	Trp	Leu	Thr	Ser	Pro	Asp	Gly	Lys	Tyr	Arg	Val
	130					135					140				
Val	Val	Gly	Gln	Glu	Trp	Glu	Tyr	Arg	Gln	Asp	Met	Ala	Leu	Asp	Val
145					150					155					160
Val	Ser	Ser	Gln	Leu	Thr	Pro	Trp	Leu	Val	Ala	Leu	Pro	Ile	Met	Leu
			165						170					175	
Leu	Leu	Leu	Ile	Val	Leu	Leu	Ser	Arg	Glu	Leu	Lys	Pro	Leu	Lys	Lys
		180						185					190		
Leu	Ala	Gln	Thr	Leu	Arg	Ser	Arg	Ser	Pro	Asp	Ala	Thr	Asp	Thr	Leu
		195					200					205			
Pro	Thr	His	Gly	Val	Pro	Thr	Glu	Val	Arg	Pro	Leu	Leu	Asp	Ala	Leu
	210					215					220				
Asn	His	Leu	Phe	Ala	Arg	Thr	Gln	Glu	Met	Met	Ala	Arg	Glu	Arg	Arg
225					230					235					240
Phe	Thr	Ser	Asp	Ala	Ala	His	Glu	Leu	Arg	Ser	Pro	Leu	Ala	Ala	Leu
			245						250					255	
Lys	Val	Gln	Thr	Asp	Val	Ala	Gln	Leu	Ser	Leu	Asp	Asp	Pro	Gly	Ala
		260						265					270		
Gln	Ser	Lys	Ala	Leu	Gly	Gln	Leu	His	Ala	Gly	Ile	Asp	Arg	Ala	Ser
		275					280					285			
Arg	Leu	Val	Asp	Gln	Leu	Leu	Thr	Leu	Ser	Arg	Leu	Asp	Ser	Leu	Asp
	290					295					300				
Asn	Leu	Asp	Asp	Val	Glu	Pro	Val	Met	Met	Ala	Asp	Leu	Leu	Gln	Ser
305					310					315					320
Ala	Val	Leu	Asp	Ile	Trp	His	Pro	Ala	Gln	Gln	Ala	Gly	Ile	Asp	Val
			325						330					335	
Arg	Leu	Asn	Val	Asn	Ala	Pro	Glu	Val	Met	Arg	His	Gly	Gln	Pro	Leu
		340						345					350		
Leu	Leu	Ser	Leu	Leu	Ala	Arg	Asn	Leu	Leu	Asp	Asn	Ala	Val	Arg	Tyr
		355					360					365			
Ser	Pro	Arg	Gly	Ser	Val	Val	Asp	Val	Thr	Leu	Asn	Thr	Gln	Ser	Phe
	370					375					380				
Thr	Val	Arg	Asp	Asn	Gly	Pro	Gly	Ile	Ser	Thr	Asp	Ala	Leu	Thr	Arg
385					390					395					400
Leu	Gly	Glu	Arg	Phe	Tyr	Arg	Pro	Pro	Gly	Gln	Asp	Ala	Thr	Gly	Ser
			405						410					415	
Gly	Leu	Gly	Leu	Ser	Ile	Val	Lys	Arg	Ile	Ala	Ala	Leu	His	Gly	Met
			420					425					430		
His	Val	Ser	Leu	Gly	Asn	Ala	Pro	Glu	Gly	Gly	Phe	Ala	Val	Thr	Val
		435					440					445			

Ser Trp
450

<210> 8560
<211> 151
<212> PRT
<213> Enterobacter cloacae

<400> 8560
Gln Lys Asp Gly Met Gly Leu Phe Asn Phe Val Lys Glu Ala Gly Glu
1 5 10 15
Lys Leu Trp Asp Asn Leu Thr Asp His Lys Gly Gln Ser Asp Lys Ile
20 25 30
Thr Glu His Leu Lys Lys Leu Asn Ile Pro Gly Ser Asp Lys Val Gln
35 40 45
Val Asn Val Thr Asp Gly Lys Ala Ser Val Thr Gly Asp Gly Leu Thr
50 55 60
Gln Glu Gln Lys Glu Lys Ile Gln Val Ala Val Gly Asn Ile Ala Gly
65 70 75 80
Val Ser Glu Val Glu Asn Asn Ile Thr Ala Thr Asp Ala Lys Asp Glu
85 90 95
Ala Thr Tyr Tyr Thr Val Lys Ser Gly Asp Thr Leu Ser Ala Ile Ser
100 105 110
Lys Thr Val Tyr Gly Asp Ala Asn Gln Tyr Asn Lys Ile Phe Glu Ala
115 120 125
Asn Arg Pro Met Leu Ser Ser Pro Asp Lys Ile Tyr Pro Gly Gln Thr
130 135 140
Leu Arg Ile Pro Lys Ala
145 150

<210> 8561
<211> 300
<212> PRT
<213> Enterobacter cloacae

<400> 8561
Glu Asn Leu Lys Arg Trp Phe Ile Lys Thr Ile Arg Gln Glu Lys Val
1 5 10 15
Glu Phe Tyr Cys Thr Met Arg Asp Thr Pro Thr Thr Asp Leu Leu Glu
20 25 30
Leu Ile Ala Leu Asn Asp Thr Val Ala Ser Phe Ser Arg Leu Phe Ala
35 40 45
Asn Thr Val Arg Tyr His His Trp His Gln Cys Leu Glu Ile Leu Tyr
50 55 60
Val Glu Glu Gly Phe Gly Val Ala Ile Val Asp Asn Arg His Tyr Thr
65 70 75 80
Met Arg Pro Gly Arg Leu Phe Phe Phe Pro Pro Phe Thr Leu His Lys
85 90 95
Val Met Val Asp Glu Gln Ala Glu Ala Ile Tyr Arg Arg Thr Ile Ile
100 105 110
His Leu Asp Gln His Ala Val Leu Lys Ile Leu Arg Asp Phe Pro Gln
115 120 125
Thr Arg Gln Arg Leu Glu Arg Leu Ser Arg Arg Gly Gly Glu Ala Trp
130 135 140
Val Ala Asp Leu Ala His Cys His His His Ile Asp His Leu Phe Ser
145 150 155 160
Cys Tyr Lys Pro Pro Met Asn Gly Glu Ser Ile Ala Ser Leu Leu Ile
165 170 175
Gly Leu Phe Ala Met Leu Pro Asp Asp Arg Asp Gly Glu Pro Gly Asn
180 185 190
Ser Gln Gly Ile Ala Ser Gln Val Met Ile Trp Leu Asp Glu His Tyr

195					200					205					
Gln	Glu	Lys	Phe	Arg	Leu	Asp	Ala	Leu	Ala	Ala	Glu	Leu	Gly	Lys	Ser
210						215					220				
Arg	Ser	Tyr	Val	Ser	Arg	Arg	Phe	His	Ala	Glu	Thr	Gly	Glu	Lys	Ile
225					230					235					240
His	Asp	Tyr	Leu	Asn	Thr	Leu	Arg	Leu	Arg	Lys	Ala	Cys	Glu	Cys	Leu
				245					250					255	
Leu	His	Thr	Asp	Ser	Ser	Val	Arg	Asp	Ile	Ala	Ala	Gln	Ala	Gly	Phe
			260					265					270		
Ser	Asp	Val	Thr	Trp	Phe	Ile	Ser	Ala	Phe	Lys	Lys	Gly	Ile	Gly	Glu
		275					280					285			
Thr	Pro	Leu	Gln	Tyr	Arg	Lys	Asn	His	Ser	Ser					
	290					295					300				

<210> 8562

<211> 414

<212> PRT

<213> Enterobacter cloacae

<400> 8562

Arg	Leu	Pro	Ala	Thr	Met	Ser	Ser	Ile	Arg	Leu	Pro	Ser	Ala	Pro	Pro
1				5				10						15	
Arg	Phe	Phe	Thr	His	Tyr	Arg	Glu	Gln	Ala	Met	Asn	Asn	Phe	Asn	Leu
			20					25					30		
His	Thr	Pro	Thr	Arg	Ile	Leu	Phe	Gly	Lys	Asn	Ala	Ile	Ala	Asp	Leu
		35					40					45			
Arg	Ala	Gln	Ile	Pro	Thr	Asp	Ala	Arg	Val	Leu	Ile	Thr	Tyr	Gly	Gly
	50					55					60				
Gly	Ser	Val	Lys	Lys	Thr	Gly	Val	Leu	Asp	Gln	Val	Tyr	Ser	Ala	Leu
65					70				75						80
Glu	Gly	Leu	Asp	Val	Arg	Glu	Phe	Gly	Gly	Ile	Glu	Pro	Asn	Pro	Ser
			85					90						95	
Tyr	Glu	Thr	Leu	Met	Asn	Ala	Val	Lys	Ile	Ala	Arg	Glu	Glu	Gln	Ile
			100					105					110		
Thr	Phe	Leu	Leu	Ala	Val	Gly	Gly	Gly	Ser	Val	Leu	Asp	Gly	Thr	Lys
		115					120					125			
Phe	Ile	Ala	Ala	Ala	Ala	His	Tyr	Ala	Asp	Gly	Ile	Asp	Pro	Trp	His
	130					135					140				
Ile	Leu	Glu	Thr	Gly	Gly	Ser	Asp	Ile	Ser	Ser	Ala	Ile	Pro	Met	Gly
145					150				155						160
Ser	Val	Leu	Thr	Leu	Pro	Ala	Thr	Gly	Ser	Glu	Ser	Asn	Lys	Gly	Ala
			165					170						175	
Val	Ile	Ser	Arg	Lys	Thr	Thr	Gly	Asp	Lys	Gln	Ala	Phe	Met	Asn	Glu
			180					185					190		
His	Val	Gln	Pro	Val	Phe	Ala	Ile	Leu	Asp	Pro	Val	Tyr	Thr	Tyr	Thr
		195					200					205			
Leu	Pro	Ala	Arg	Gln	Val	Ala	Asn	Gly	Val	Val	Asp	Ala	Phe	Val	His
	210					215					220				
Thr	Val	Glu	Gln	Tyr	Val	Thr	Tyr	Pro	Val	Asn	Ala	Lys	Ile	Gln	Asp
225					230					235					240
Arg	Phe	Ala	Glu	Gly	Ile	Leu	Leu	Thr	Leu	Ile	Glu	Glu	Gly	Pro	Lys
			245					250						255	
Ala	Leu	Lys	Glu	Pro	Asp	Asn	Tyr	Asp	Val	Arg	Ala	Asn	Val	Met	Trp
			260					265					270		
Ala	Ala	Thr	Gln	Ala	Leu	Asn	Gly	Leu	Ile	Gly	Ala	Gly	Val	Pro	Gln
		275					280					285			
Asp	Trp	Ala	Thr	His	Met	Leu	Gly	His	Glu	Leu	Thr	Ala	Met	His	Gly
	290					295					300				
Leu	Asp	His	Ala	Gln	Thr	Leu	Ala	Val	Val	Leu	Pro	Ala	Leu	Trp	Asn
305					310					315					320
Glu	Lys	Arg	Asp	Ala	Lys	Arg	Ala	Lys	Leu	Leu	Gln	Tyr	Ala	Glu	Arg

				325					330				335				
Val	Trp	Asn	Ile	Thr	Asp	Gly	Ser	Asp	Asp	Ala	Arg	Ile	Asp	Ala	Ala		
			340					345					350				
Ile	Glu	Ala	Thr	Arg	His	Phe	Phe	Glu	Ser	Leu	Gly	Val	Pro	Thr	Arg		
		355					360					365					
Leu	Ser	Gly	Tyr	Gly	Leu	Asp	Gly	Ser	Ser	Ile	Pro	Ala	Leu	Leu	Ala		
	370					375					380						
Lys	Leu	Glu	Ala	His	Gly	Met	Thr	Gln	Ile	Gly	Glu	His	Gly	Asp	Ile		
385					390					395					400		
Thr	Leu	Asp	Val	Ser	Arg	Arg	Ile	Tyr	Glu	Ala	Ala	Arg					
				405					410								

<210> 8563

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 8563

Ala	Pro	Glu	Gly	Gly	Lys	Met	Ala	Asn	Gln	Thr	Val	Ile	Lys	Leu	Gln		
1				5					10					15			
Asp	Gly	Asn	Val	Met	Pro	Gln	Leu	Gly	Leu	Gly	Val	Trp	Lys	Ala	Gly		
		20						25					30				
Asn	Asp	Glu	Val	Val	Ser	Ala	Ile	His	Lys	Ala	Leu	Glu	Val	Gly	Tyr		
		35					40					45					
Arg	Ser	Ile	Asp	Thr	Ala	Ala	Ala	Tyr	Lys	Asn	Glu	Asp	Gly	Val	Gly		
	50					55					60						
Lys	Ala	Leu	Ala	Ser	Ala	Gly	Val	Pro	Arg	Asp	Glu	Leu	Phe	Ile	Thr		
65				70					75					80			
Thr	Lys	Leu	Trp	Asn	Asp	Asp	Gln	Lys	Arg	Pro	Arg	Glu	Ala	Leu	Gln		
				85				90						95			
Glu	Ser	Leu	Glu	Lys	Leu	Gln	Leu	Asp	Phe	Val	Asp	Leu	Tyr	Leu	Met		
		100						105					110				
His	Trp	Pro	Val	Pro	Ala	Ile	Asp	His	Tyr	Val	Asp	Ala	Trp	Lys	Gly		
	115					120						125					
Met	Ile	Glu	Leu	Gln	Lys	Glu	Gly	Leu	Ile	Lys	Ser	Ile	Gly	Val	Cys		
	130					135					140						
Asn	Phe	Gln	Val	His	His	Leu	Gln	Arg	Leu	Ile	Asp	Glu	Thr	Gly	Val		
145					150					155					160		
Ala	Pro	Val	Ile	Asn	Gln	Ile	Glu	Leu	His	Pro	Leu	Met	Gln	Gln	Arg		
				165					170					175			
Gln	Leu	His	Ser	Trp	Asn	Ala	Thr	His	Lys	Ile	Gln	Thr	Glu	Ser	Trp		
		180						185					190				
Ser	Pro	Leu	Ala	Gln	Gly	Gly	Glu	Gly	Val	Phe	Asp	Gln	Lys	Ile	Ile		
	195						200					205					
Arg	Glu	Leu	Ala	Asp	Lys	Tyr	Gly	Lys	Thr	Pro	Ala	Gln	Ile	Val	Ile		
	210					215					220						
Arg	Trp	His	Leu	Asp	Ser	Gly	Leu	Val	Val	Ile	Pro	Lys	Ser	Val	Thr		
225					230					235					240		
Pro	Ser	Arg	Ile	Ala	Glu	Asn	Phe	Asp	Val	Trp	Asp	Phe	Arg	Leu	Asp		
				245					250					255			
Lys	Asp	Glu	Leu	Gly	Glu	Ile	Ala	Lys	Leu	Asp	Gln	Gly	Lys	Arg	Leu		
		260					265					270					
Gly	Pro	Asp	Pro	Asp	Gln	Phe	Gly	Gly									
		275					280										

<210> 8564

<211> 226

<212> PRT

<213> Enterobacter cloacae

<400> 8564

Arg His Gln Gly Gly Asn Met Arg Ile Leu Leu Val Glu Asp Asp Lys
 1 5 10 15
 Leu Ile Gly Asp Gly Ile Lys Ala Gly Leu Ser Lys Met Gly Phe Asn
 20 25 30
 Val Asp Trp Phe Thr Asp Gly Lys Thr Gly Gln Ala Ala Leu Tyr Thr
 35 40 45
 Ala Pro Tyr Asp Ala Val Val Leu Asp Leu Thr Leu Pro Glu Ile Asp
 50 55 60
 Gly Leu Glu Ile Leu Arg Ala Trp Arg Glu Ser Gly Lys Ser Glu Pro
 65 70 75 80
 Val Leu Ile Leu Thr Ala Arg Asp Ala Leu Asn Gln Arg Val Glu Gly
 85 90 95
 Leu Arg Leu Gly Ala Asp Asp Tyr Leu Cys Lys Pro Phe Ala Leu Ile
 100 105 110
 Glu Val Ala Ala Arg Leu Glu Ala Leu Val Arg Arg Ser His Gly Gln
 115 120 125
 Ala Arg Ser Glu Leu Arg His Gly Lys Val Thr Leu Asp Pro Ala Ser
 130 135 140
 Leu Val Ala Thr Leu Glu Gly Glu Thr Leu Val Leu Lys Pro Lys Glu
 145 150 155 160
 Phe Ala Leu Leu Glu Leu Leu Met Arg Asn Ala Gly Arg Val Leu Pro
 165 170 175
 Arg Lys Ala Ile Glu Glu Lys Leu Tyr Asn Trp Asp Asp Asp Val Ser
 180 185 190
 Ser Asn Ala Val Glu Val His Val His His Leu Arg Arg Lys Leu Gly
 195 200 205
 Ser Asp Phe Ile Arg Thr Val His Gly Ile Gly Tyr Thr Leu Gly Asp
 210 215 220
 Ala
 225

<210> 8565

<211> 233

<212> PRT

<213> Enterobacter cloacae

<400> 8565

Pro Ser Ala Gly Lys Ile Ile Ala Leu Ser Ala Lys Asp Phe Ala His
 1 5 10 15
 Phe Ala Tyr Phe Ser Ala Pro Ser Ser Arg Val Glu Tyr Pro Ala Tyr
 20 25 30
 Ser His His Arg Gly Gln Ile Met Ser Asn Ile Leu Ile Ile Asn Gly
 35 40 45
 Ala Lys Glu Phe Ala His Ser Lys Gly Gln Leu Asn Asp Thr Leu Thr
 50 55 60
 Glu Val Ala Asp Gly Phe Leu Arg Asp Ala Gly His Asp Val Lys Val
 65 70 75 80
 Val Arg Ala Asp Ser Asp Tyr Asp Val Lys Ala Glu Val Gln Asn Phe
 85 90 95
 Leu Trp Ala Asp Val Val Ile Trp Gln Met Pro Gly Trp Trp Met Gly
 100 105 110
 Ala Pro Trp Thr Val Lys Lys Tyr Met Asp Asp Val Phe Thr Glu Gly
 115 120 125
 His Gly Ser Leu Tyr Ala Ser Asp Gly Arg Thr Arg Ser Asp Ala Ser
 130 135 140
 Lys Lys Tyr Gly Ser Gly Gly Leu Ile Gln Gly Lys Lys Tyr Met Leu
 145 150 155 160
 Ser Leu Thr Trp Asn Ala Pro Leu Glu Ala Phe Thr Glu Lys Asp Gln
 165 170 175
 Phe Phe Glu Gly Val Gly Val Asp Gly Ala Tyr Leu Pro Phe His Lys
 180 185 190

Ala Asn Gln Phe Leu Gly Met Glu Pro Leu Pro Thr Phe Ile Val Asn
 195 200 205
 Asp Val Ile Lys Met Pro Asp Val Pro Arg Tyr Ile Ala Glu Tyr Arg
 210 215 220
 Lys His Leu Ala Glu Ile Phe Ala
 225 230

<210> 8566

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 8566

Lys Glu Leu Ile Met Leu Thr Val Ile Ala Glu Ile Arg Thr Arg Pro
 1 5 10 15
 Gly Gln His His Arg Gln Ala Val Leu Asp Glu Phe Ala Lys Ile Ile
 20 25 30
 Pro Thr Val Leu Lys Glu Glu Gly Cys His Gly Tyr Ala Pro Met Val
 35 40 45
 Asp Ala Ala Thr Ser Ala Ser Phe Gln Ala Thr Ala Pro Asp Ser Ile
 50 55 60
 Ile Met Val Glu Gln Trp Glu Thr Val Ala His Leu Glu Ala His Leu
 65 70 75 80
 Gln Thr Ala His Met Lys Ala Trp Ser Asp Ala Val Lys Gly Asp Val
 85 90 95
 Leu Glu Thr His Ile Arg Ile Leu Glu Gln Gly Val
 100 105

<210> 8567

<211> 413

<212> PRT

<213> Enterobacter cloacae

<400> 8567

Pro His Thr Thr Asn Glu Glu His Leu Met Asn Thr Thr Thr Thr Arg
 1 5 10 15
 Ala Val Ser Arg Trp Val Ile Leu Met Leu Ala Leu Gly Ala Gly Phe
 20 25 30
 Ser Val Ala Ser Ile Tyr Tyr Ala Gln Pro Leu Leu Pro Leu Met Gly
 35 40 45
 Ser Asp Leu Asn Leu Ser Ile Glu Gly Met Gly Met Val Pro Thr Leu
 50 55 60
 Thr Gln Ala Gly Tyr Ala Leu Gly Ile Leu Phe Leu Leu Pro Leu Gly
 65 70 75 80
 Asp Arg His Asp Arg Arg Thr Leu Ile Leu Ile Lys Ser Ala Ala Leu
 85 90 95
 Ala Leu Phe Leu Leu Gly Cys Ser Leu Thr Gly Gln Leu His Ser Leu
 100 105 110
 Leu Leu Thr Ser Leu Leu Ile Gly Met Ala Ala Thr Met Ala Gln Asp
 115 120 125
 Ile Val Pro Ala Ala Ala Ile Leu Ala Pro Glu Gly Lys Gln Gly Lys
 130 135 140
 Thr Val Gly Thr Val Met Thr Gly Leu Leu Leu Gly Ile Leu Leu Ser
 145 150 155 160
 Arg Thr Val Ser Gly Val Val Gly Glu Ala Phe Gly Trp Arg Val Met
 165 170 175
 Tyr Gln Leu Ala Ala Ala Ser Ile Ala Phe Val Gly Val Val Met Trp
 180 185 190
 Ala Val Leu Pro Arg Phe Ala Val His Ser Thr Leu Ser Tyr Pro Ala
 195 200 205
 Leu Met Arg Ser Met Glu His Leu Trp Arg Arg Tyr Pro Ala Leu Arg

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      210                      215                      220
Arg Ala Ala Leu Ala Gln Gly Phe Leu Ser Ile Ala Phe Ser Ala Phe
225                      230                      235                      240
Trp Ser Thr Leu Ala Val Met Leu Leu Glu Arg Tyr His Leu Gly Ser
      245                      250                      255
Ala Val Ala Gly Gly Phe Gly Ile Ala Gly Ala Ala Gly Ala Leu Ala
      260                      265                      270
Ala Pro Leu Ala Gly Gly Leu Ala Asp Lys Leu Gly Ala Gly Lys Val
      275                      280                      285
Thr Gln Leu Gly Ala Ala Leu Val Thr Leu Ser Phe Ala Leu Met Phe
      290                      295                      300
Leu Met Pro Ala Leu Gly Ile His Gly Gln Leu Ile Leu Ile Ala Leu
305                      310                      315                      320
Ser Ala Val Gly Phe Asp Leu Gly Leu Gln Ser Ser Leu Val Ala His
      325                      330                      335
Gln Asn Leu Val Tyr Ser Leu Glu Pro Gln Ala Arg Gly Arg Leu Asn
      340                      345                      350
Ala Leu Leu Phe Thr Val Ile Phe Ile Gly Met Ala Leu Gly Ser Ala
      355                      360                      365
Leu Gly Ser Asn Ile Tyr Thr Leu Ala Gly Trp Ser Gly Val Val Ala
      370                      375                      380
Leu Ala Thr Leu Cys Gly Ala Ile Ala Leu Ala Ile Arg Val Ile Glu
385                      390                      395                      400
Ser Ala Arg Val Leu Ser Ala Gln Ala Glu Ser Val
      405                      410

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<210> 8568

<211> 238

<212> PRT

<213> Enterobacter cloacae

<400> 8568

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Trp Lys Thr Thr Ala Gly Arg Ile Cys Leu Ile Leu Asp Met Val Glu
1      5      10      15
Arg Ala Met Arg Thr Phe Lys Arg Gly Leu Ala Ala Thr Leu Leu Leu
      20      25      30
Leu Ser Pro Leu Val Gln Ala Glu Gly Leu Glu Asp Gln Leu Asn Ala
      35      40      45
Phe Phe Ala Gln Lys Leu Ala Gly Phe Ser Asp Asp Val Arg Val Thr
      50      55      60
Val Arg Thr Pro Pro Asn Leu Tyr Pro Ser Cys Glu Ala Pro Ser Phe
      65      70      75      80
Ser Val Thr Gly Ser Thr Lys Leu Trp Gly Asn Val Asn Val Leu Ala
      85      90      95
Arg Cys Ala Asn Glu Lys Arg Tyr Leu Gln Val Ala Val Gln Ala Thr
      100     105     110
Gly Asn Tyr Val Val Ala Ala Val Pro Ile Pro Arg Gly Ser Leu Leu
      115     120     125
Gln Pro Asp Ser Val Thr Leu Lys Arg Gly Arg Leu Asp Gln Leu Pro
      130     135     140
Pro Arg Thr Met Leu Asp Ile Asn Gln Ala Gln Glu Ala Val Ser Leu
      145     150     155     160
Arg Asp Val Ala Pro Gly Gln Ala Ile Gln Leu Ser Met Leu Arg Gln
      165     170     175
Ala Trp Arg Val Lys Ala Gly Gln Gln Val Met Val Val Ala Asn Gly
      180     185     190
Glu Gly Phe Ser Ile Asn Ser Glu Gly Lys Ala Leu Asn Asn Ala Ala
      195     200     205
Val Ala Gln Asn Ala Arg Val Arg Met Ser Ser Gly Gln Val Val Ser
      210     215     220
Gly Thr Val Gly Pro Asp Gly Asn Ile Leu Ile Asn Leu

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225

230

235

<210> 8569

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 8569

Cys	Gln	Ala	Gln	Thr	Pro	Arg	Thr	Leu	Asp	Glu	Asp	Asn	Thr	Met	Ser
1				5					10					15	
Ile	Asp	Arg	Thr	Ser	Ala	Leu	Lys	Pro	Val	Ser	Thr	Val	Gln	Pro	Arg
			20					25					30		
Glu	Thr	Asn	Glu	Ala	Ala	Pro	Gln	Lys	Thr	Arg	Leu	Glu	Lys	Thr	Ser
		35					40					45			
Thr	Ala	Asn	Ser	Thr	Ser	Val	Thr	Leu	Ser	Asp	Ala	Gln	Ser	Lys	Leu
	50					55					60				
Met	Gln	Pro	Gly	Ser	Ser	Asp	Ile	Asn	Met	Glu	Arg	Val	Glu	Ala	Leu
65					70					75					80
Lys	Thr	Ala	Ile	Arg	Asn	Gly	Glu	Leu	Lys	Met	Asp	Thr	Ser	Lys	Ile
				85					90					95	
Ala	Asp	Ala	Leu	Ile	Gln	Asp	Ala	Gln	Ser	Phe	Leu	Gln	Ser	Asn	
			100					105						110	

<210> 8570

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 8570

Asp	His	Pro	Asp	Ile	Leu	Ala	Tyr	Gln	Asp	Arg	Cys	Ala	Asp	Phe	Met
1				5					10					15	
Leu	Arg	Asn	Ala	Met	Lys	Lys	Ile	Val	Ile	Ala	Ala	Ala	Leu	Ile	Val
			20					25					30		
Ser	Gly	Leu	Leu	Val	Gly	Cys	Asn	Gln	Leu	Thr	Gln	Tyr	Thr	Val	Ser
		35					40					45			
Glu	Gln	Glu	Ile	Asn	Gln	Ala	Leu	Glu	Lys	His	Asn	Asn	Phe	Ser	Lys
	50					55					60				
Asp	Ile	Gly	Val	Pro	Gly	Leu	Ala	Asp	Ala	His	Ile	Val	Leu	Thr	Asn
65					70					75					80
Leu	Ala	Ser	Gln	Ile	Gly	Arg	Glu	Glu	Pro	Asn	Lys	Val	Thr	Leu	Ser
			85					90						95	
Gly	Asp	Ala	Ser	Leu	Asp	Met	Thr	Ser	Leu	Phe	Gly	Asn	Gln	Lys	Ala
			100					105					110		
Asp	Ile	Lys	Leu	Lys	Leu	Lys	Ala	Leu	Pro	Val	Phe	Asn	Lys	Asp	Lys
		115					120					125			
Gly	Ala	Ile	Phe	Leu	Gln	Glu	Met	Glu	Ile	Val	Asp	Ala	Val	Val	Thr
	130					135					140				
Pro	Asp	Lys	Met	Lys	Pro	Val	Leu	Gln	Thr	Leu	Met	Pro	Tyr	Leu	Asn
145					150					155					160
Gln	Ser	Leu	Gln	Asn	Tyr	Phe	Asn	Gln	Gln	Pro	Ala	Tyr	Val	Leu	Ser
			165					170						175	
Glu	Asp	Lys	Ser	Lys	Gly	Glu	Ser	Leu	Ala	Lys	Lys	Tyr	Ala	Lys	Gly
			180					185					190		
Ile	Glu	Val	Lys	Pro	Gly	Glu	Ile	Ile	Ile	Pro	Phe	Thr	Asp		
		195					200						205		

<210> 8571

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 8571

Leu Arg Ser Ala Arg His Gly Asn Asp Ala Cys His Val Trp Asn Gly
 1 5 10 15
 Leu Val Tyr Ser Val Val Arg Pro Trp Thr Leu Leu Leu Asn Tyr Leu
 20 25 30
 Arg Phe Lys Leu Ala Asn Thr Ala Asn Gly Phe Gly Phe Cys Ala Ser
 35 40 45
 Ser Gly Ser Ser Pro Lys Thr Met Ser Ala Ser Asp Thr Ser Gln Cys
 50 55 60
 Ser Glu Ser Cys Thr Gly Thr Thr Gly Arg Glu Arg Met Thr Ser Ser
 65 70 75 80
 Ser Thr Ser Ala Arg Arg Ser Ile Ser Pro Asn Ser Leu Thr Ser Ile
 85 90 95
 Gly Ser Tyr Ala Ser Gly Ser Ala Ser Ala Cys Ser Ser Glu Arg Thr
 100 105 110
 Gly Leu Lys Gln Tyr Val Val
 115 120

<210> 8572

<211> 1041

<212> PRT

<213> Enterobacter cloacae

<400> 8572

Val Thr Met Lys Arg Met Leu Ile Asn Ala Thr Gln Gln Glu Glu Leu
 1 5 10 15
 Arg Val Ala Leu Val Asp Gly Gln Arg Leu Tyr Asp Leu Asp Ile Glu
 20 25 30
 Ser Pro Gly His Glu Gln Lys Lys Ala Asn Ile Tyr Lys Gly Lys Ile
 35 40 45
 Thr Arg Ile Glu Pro Ser Leu Glu Ala Ala Phe Val Asp Tyr Gly Ala
 50 55 60
 Glu Arg His Gly Phe Leu Pro Leu Lys Glu Ile Ala Arg Glu Tyr Phe
 65 70 75 80
 Pro Ala Asn Tyr Asn Ser His Gly Arg Pro Asn Ile Lys Asp Val Leu
 85 90 95
 Arg Glu Gly Gln Glu Val Ile Val Gln Ile Asp Lys Glu Glu Arg Gly
 100 105 110
 Asn Lys Gly Ala Ala Leu Thr Thr Phe Ile Ser Leu Ala Gly Ser Tyr
 115 120 125
 Leu Val Leu Met Pro Asn Asn Pro Arg Ala Gly Gly Ile Ser Arg Arg
 130 135 140
 Ile Glu Gly Asp Asp Arg Thr Glu Leu Lys Glu Ala Leu Ala Ser Leu
 145 150 155 160
 Glu Leu Pro Asp Gly Met Gly Leu Ile Val Arg Thr Ala Gly Val Gly
 165 170 175
 Lys Ser Ala Glu Ala Leu Gln Trp Asp Leu Ser Phe Arg Leu Lys His
 180 185 190
 Trp Glu Ala Ile Lys Lys Ala Ala Glu Ser Arg Pro Ala Pro Phe Leu
 195 200 205
 Ile His Gln Glu Ser Asn Val Ile Val Arg Ala Phe Arg Asp Tyr Leu
 210 215 220
 Arg Gln Asp Ile Gly Glu Ile Leu Ile Asp Asn Pro Lys Val Leu Glu
 225 230 235 240
 Leu Ala Arg Gln His Ile Ala Ala Leu Gly Arg Pro Asp Phe Thr Ser
 245 250 255
 Lys Ile Lys Leu Tyr Thr Gly Glu Ile Pro Leu Phe Ser His Tyr Gln
 260 265 270
 Ile Glu Ser Gln Ile Glu Ser Ala Phe Gln Arg Glu Val Arg Leu Pro
 275 280 285
 Ser Gly Gly Ser Ile Val Ile Asp Thr Thr Glu Ala Leu Thr Ala Ile

290	295	300
Asp Ile Asn Ser Ala Arg	Ala Thr Arg Gly Gly	Asp Ile Glu Glu Thr
305	310	315
Ala Phe Asn Thr Asn	Leu Glu Ala Ala Asp	Glu Ile Ala Arg Gln Leu
	325	330
Arg Leu Arg Asp Leu	Gly Gly Leu Ile Val	Ile Asp Phe Ile Asp Met
	340	345
Thr Pro Val Arg His	Gln Arg Ala Val Glu	Asn Arg Leu Arg Glu Ala
	355	360
Val Arg Gln Asp Arg	Ala Arg Ile Gln Ile Ser	His Ile Ser Arg Phe
	370	375
Gly Leu Leu Glu Met	Ser Arg Gln Arg Leu Ser	Pro Ser Leu Gly Glu
385	390	395
Ser Ser His His Val	Cys Pro Arg Cys Ser	Gly Thr Val Arg
	405	410
Asp Asn Glu Ser Leu	Ser Leu Ser Ile Leu	Arg Leu Ile Glu Glu Glu
	420	425
Ala Leu Lys Glu Asn	Thr Lys Glu Val His	Ala Ile Val Pro Val Pro
	435	440
Ile Ala Ser Tyr Leu	Leu Asn Glu Lys Arg	Ala Val Ser Ala Ile
	450	455
Glu Ala Arg Gln Gly	Gly Val Arg Cys Ile	Ile Val Pro Asn Asp Glu
465	470	475
Met Gln Thr Pro His	Tyr His Val Leu Arg	Val Arg Lys Gly Glu Glu
	485	490
Thr Ser Thr Leu Ser	Tyr Leu Leu Pro Lys	Leu His Glu Glu Glu Met
	500	505
Ala Leu Pro Ser Asp	Glu Glu Pro Ala Glu	Arg Lys Leu Pro Glu Gln
	515	520
Pro Ala Leu Ala Thr	Phe Ile Met Pro Glu	Ala Pro Glu Ala Thr
	530	535
Leu Glu Lys Pro Ala	Ala Lys Pro Ala Val	Gln Lys Ala Ala Pro Ala
545	550	555
Ala Ala Lys Ala Gln	Pro Glu Gln Pro Gly	Leu Leu Ser Arg Ile Phe
	565	570
Gly Ala Leu Lys Lys	Met Phe Ala Gly Glu	Glu Val Gln Pro Glu Gln
	580	585
Pro Lys Glu Ala Pro	Lys Glu Ala Lys Pro	Glu Arg Gln Gln Asp Arg
	595	600
Arg Lys Arg Gln Asn	Asn Arg Asp Arg Asn	Asp Arg Asn Asp Arg
	610	615
Ser Asp Arg Asn Glu	Arg Arg Asp Asn Arg	Ser Glu Asn Asn Glu Gly
625	630	635
Arg Glu Gln Arg Glu	Asp Asn Arg Arg Asn	Arg Arg Glu Lys Gln Gln
	645	650
Gln Asn Val Glu Asp	Arg Glu Ile Arg Gln	Gln Ala Gly Asp Glu Ser
	660	665
Glu Lys Ser Lys Gln	Arg Asp Glu Gln Gln	Pro Arg Arg Glu Arg Asn
	675	680
Arg Arg Arg Asn Asp	Glu Lys Arg Gln Ala	Gln Gln Glu Val Lys Asn
	690	695
Leu Asn Arg Glu Ala	Pro Val Glu Gln Gln	Asp Thr Glu Gln Glu Glu
705	710	715
Arg Thr Gln Val Met	Pro Arg Arg Lys Gln	Arg Gln Leu Thr Gln Lys
	725	730
Val Arg Val Gly Ala	Val Gln Ala Glu Asn	Asp Val Ile Ala Val
	740	745
Glu Ala Ala Glu Ser	Thr Thr Gly Thr Gln	Val Ala Lys Val Asp Leu
	755	760
Pro Ala Val Val Glu	Asn Gln Val Glu Gln	Asp Glu Ser Ser Glu Asn
	770	775
		780

Arg Asp Asn Ala Gly Met Pro Arg Arg Ser Arg Arg Ser Pro Arg His
 785 790 795 800
 Leu Arg Val Ser Gly Gln Arg Arg Arg Arg Tyr Arg Asp Glu Arg Tyr
 805 810 815
 Pro Thr Gln Ser Pro Met Pro Leu Thr Val Ala Cys Ala Ser Pro Glu
 820 825 830
 Met Ala Ser Gly Lys Val Trp Ile Arg Tyr Pro Val Ala Arg Pro Glu
 835 840 845
 Gln Ala Ile Glu Glu Gln Ala Val Thr Gln Glu Val Ile Ala Pro Val
 850 855 860
 Ala Ala Val Glu Asp Val Val Ser Glu Ala Ala Thr Val Val Glu Pro
 865 870 875 880
 Gln Val Val Asp Thr Ala Ala Pro Gln Ala Val Glu Val Glu Thr Thr
 885 890 895
 His Pro Glu Val Ile Ala Ala Pro Val Asp Ala Ala Pro Gln Ile Ile
 900 905 910
 Ala Glu Glu Asp Thr Val Val Ala Glu Glu Val Ala Glu Asp Ala Glu
 915 920 925
 Pro Val Ser Ala Ala Glu Glu Thr Ala Asp Val Ala Val Glu Thr Val
 930 935 940
 Thr Glu Glu Val Val Gln Asp Val Glu Ile Gln Val Glu Pro Val Val
 945 950 955 960
 Glu Glu Val Lys Ala Pro Glu Val Lys Ser Glu Pro Ile Glu Val Val
 965 970 975
 Ala Ala Val Ala Pro Ala His Val Ala Thr Ala Pro Met Thr Arg Ala
 980 985 990
 Pro Ala Pro Glu Tyr Val Pro Glu Ala Pro Arg His Ser Asp Trp Val
 995 1000 1005
 Arg Pro Ala Phe Asn Phe Glu Gly Lys Gly Ala Ala Gly Gly His Ser
 1010 1015 1020
 Ala Thr His Met Ala Thr Ala Pro Ala Thr Arg Pro Gln Pro Val Glu
 1025 1030 1035 1040

<210> 8573

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 8573

Phe Arg Thr His Arg Val Ser Ser Arg Val Thr Asn Arg Met Ser Arg
 1 5 10 15
 Leu Ser Glu Ile Leu Asp Gln Met Thr Val Val Leu Asn Asp Leu Lys
 20 25 30
 Thr Val Met Asp Ala Glu Gln His His Leu Ser Ser Gly Gln Ile Asn
 35 40 45
 Gly Ser Ala Leu Gln Arg Ile Thr Glu Asp Lys Ser Ser Leu Leu Ala
 50 55 60
 Thr Leu Asp Tyr Leu Glu Lys Gln Arg Arg Ala Glu Gln Asp Ala Lys
 65 70 75 80
 Arg Ser Ala Asn Asp Glu Ile Asn Glu Arg Trp Gln Thr Ile Thr Glu
 85 90 95
 Lys Thr Gln His Leu Arg Asp Leu Asn Gln His Asn Gly Trp Leu Leu
 100 105 110
 Glu Gly Gln Ile Ile Arg Asn Gln Gln Ala Leu Glu Val Leu Lys Pro
 115 120 125
 Tyr Lys Glu Pro Gly Leu Tyr Gly Ala Asp Gly Gln Thr Ala Thr Ala
 130 135 140
 Arg Ile Thr Gly Gly Lys Lys Ile Ser Ile
 145 150 155

<210> 8574
 <211> 544
 <212> PRT
 <213> Enterobacter cloacae

<400> 8574

Gly	Ala	Pro	Ala	Ser	Gln	Arg	Gly	Ser	Ser	Gly	Ser	Arg	Pro	Glu	Arg
1				5				10						15	
Val	Pro	Arg	Val	Leu	Lys	Thr	Gly	Asp	Ser	Arg	Arg	Asn	Asn	Pro	Pro
			20					25					30		
Asp	Ala	Arg	His	His	Ala	His	Ala	Pro	Asp	Glu	Arg	Pro	Ala	Cys	Pro
		35					40					45			
Ser	Ser	Asp	Ala	Leu	Leu	Ala	His	Tyr	Cys	Asp	Ser	Gln	Thr	Ser	Leu
	50					55					60				
Pro	Leu	Leu	Pro	Val	Ala	Ser	Ala	Leu	Pro	Val	Ser	Phe	Thr	Ile	Pro
65				70						75				80	
Val	Pro	Ala	Pro	Ser	Val	Lys	Thr	Val	Thr	Tyr	His	Phe	Asp	Arg	Phe
				85					90					95	
Ser	His	Phe	Ser	Met	Arg	Thr	Leu	Tyr	Gln	Ser	Thr	Phe	Leu	Ile	Lys
			100					105					110		
Lys	Tyr	Cys	Arg	Gln	Arg	Val	Trp	Glu	Lys	Glu	Arg	Arg	His	Arg	Arg
		115					120					125			
Met	Leu	Ala	Cys	Ser	Pro	Phe	Ile	Phe	Pro	Gly	Gly	Lys	Met	Ser	Arg
	130					135					140				
Val	Ser	Gln	Ala	Arg	Ser	Leu	Gly	Lys	Tyr	Phe	Leu	Leu	Val	Asp	Asn
145				150						155				160	
Met	Leu	Val	Val	Leu	Gly	Phe	Phe	Val	Val	Phe	Pro	Leu	Ile	Ser	Ile
			165					170						175	
Arg	Phe	Val	Asp	Gln	Met	Gly	Trp	Ala	Ala	Leu	Met	Val	Gly	Ile	Ala
			180					185					190		
Leu	Gly	Leu	Arg	Gln	Phe	Val	Gln	Gln	Gly	Leu	Gly	Val	Phe	Gly	Gly
		195					200					205			
Ala	Ile	Ala	Asp	Arg	Phe	Gly	Ala	Lys	Pro	Met	Ile	Val	Thr	Gly	Met
		210				215					220				
Leu	Leu	Arg	Ala	Ala	Gly	Phe	Ala	Thr	Met	Ala	Ile	Ala	His	Glu	Pro
225				230						235				240	
Trp	Leu	Leu	Trp	Phe	Ser	Cys	Phe	Leu	Ser	Gly	Ile	Gly	Gly	Thr	Leu
			245						250					255	
Phe	Asp	Pro	Pro	Arg	Thr	Ala	Leu	Val	Val	Lys	Leu	Ile	Arg	Pro	Gln
			260					265					270		
His	Arg	Gly	Arg	Phe	Phe	Ser	Ile	Leu	Met	Met	Gln	Asp	Ser	Ala	Gly
		275					280					285			
Ala	Val	Val	Gly	Ala	Leu	Leu	Gly	Ser	Trp	Leu	Leu	Gln	Tyr	Asp	Phe
		290				295					300				
Arg	Leu	Val	Cys	Ala	Thr	Gly	Ala	Val	Leu	Phe	Ile	Leu	Cys	Ala	Leu
305				310						315				320	
Phe	Asn	Gly	Leu	Phe	Leu	Pro	Ala	Trp	Lys	Leu	Ser	Thr	Val	Lys	Ala
			325						330					335	
Pro	Val	Arg	Glu	Gly	Leu	Asp	Arg	Val	Leu	Ser	Asp	Lys	Arg	Phe	Val
			340					345					350		
Thr	Tyr	Val	Leu	Thr	Leu	Thr	Gly	Tyr	Tyr	Met	Leu	Ala	Val	Gln	Val
		355					360					365			
Met	Leu	Met	Leu	Pro	Ile	Met	Val	Asn	Asp	Ile	Ala	Gly	Thr	Pro	Ala
		370				375					380				
Ala	Val	Lys	Trp	Met	Tyr	Ala	Ile	Glu	Ala	Cys	Leu	Ser	Leu	Thr	Leu
385				390						395				400	
Leu	Tyr	Pro	Ile	Ala	Arg	Trp	Ser	Glu	Arg	Arg	Phe	Arg	Leu	Glu	His
			405						410					415	
Arg	Leu	Met	Ala	Gly	Leu	Leu	Leu	Met	Thr	Leu	Ser	Met	Met	Pro	Ile
			420					425					430		

Gly Leu Val Ser Ser Leu Gln Gln Leu Phe Met Leu Ile Cys Thr Phe
 435 440 445
 Tyr Ile Gly Ser Ile Ile Ala Glu Pro Ala Arg Glu Thr Leu Ser Ala
 450 455 460
 Ser Leu Ala Asp Ala Arg Ala Arg Gly Ser Tyr Met Gly Phe Ser Arg
 465 470 475 480
 Leu Gly Leu Ala Leu Gly Gly Ala Leu Gly Tyr Thr Gly Gly Gly Trp
 485 490 495
 Leu Phe Asp Ala Gly Lys Ala Leu His Gln Pro Glu Leu Pro Trp Val
 500 505 510
 Met Leu Gly Met Val Gly Phe Met Thr Leu Ile Ala Leu Trp Trp Gln
 515 520 525
 Phe Ser Asp Lys Arg Ser Thr Arg Gly Met Leu Glu Pro Gly Ala
 530 535 540

<210> 8575

<211> 119

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (114)

<400> 8575

Asn Arg Lys Leu Asp Gly Lys Thr Leu Lys Asn Cys Arg Pro Leu Leu
 1 5 10 15
 Ser Asn Arg Gln Tyr Asn Cys Ile Asn Lys Gln Tyr Ile Thr Gln Gly
 20 25 30
 Ala Phe Met Arg Ile Glu Val Thr Ile Ala Lys Ser Thr Val Leu Pro
 35 40 45
 Ala Gly Ala Leu Asp Ala Leu Ala Gly Glu Leu Ser Arg Arg Ile Asn
 50 55 60
 Ser Thr Phe Pro Glu Asn Asp Gly Ala Val Thr Val Arg Tyr Ala Thr
 65 70 75 80
 Ala Asn His Leu Ser Val Ile Gly Gly Ala Lys Glu Asp Lys Glu Arg
 85 90 95
 Ile Ser Glu Ile Leu Gln Glu Thr Trp Glu Ser Ala Asp Asp Trp Phe
 100 105 110
 Met Xaa Ser Gln Thr Asp
 115

<210> 8576

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 8576

Asn Gly Trp His Arg Tyr Ala Ile Ser Gly Asp Lys Asn Met Pro Asn
 1 5 10 15
 Leu Val Leu Ala Ser Thr Ser Pro Tyr Arg Arg Met Leu Leu Glu Lys
 20 25 30
 Leu Gly Ile Pro Phe Glu Cys Ala Ala Pro Glu Val Asp Glu Thr Pro
 35 40 45
 Gln Pro Gly Glu Ser Pro Arg His Leu Val Thr Arg Leu Ala Lys Glu
 50 55 60
 Lys Ala Gln Ser Leu Ala Val Arg Tyr Pro Ala His Leu Ile Ile Gly
 65 70 75 80
 Ser Asp Gln Val Cys Val Leu Asp Gly Glu Ile Thr Gly Lys Pro Tyr
 85 90 95
 Thr Glu Glu Ile Ala Cys Gln Gln Leu Leu Arg Ala Arg Gly Ser Ile

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<210> 8577
<211> 368
<212> PRT
<213> Enterobacter cloacae
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<400>	8577														
Phe 1	Val	Ser	Gly	Lys 5	Asn	Ser	His	Leu	Met 10	Thr	Asp	Leu	Phe	Gln 15	Ala
Gly	Ala	Ser	Met 20	Thr	Val	Gln	Ser	Gln 25	Val	Leu	Lys	Ile	Arg 30	Arg	Pro
Asp	Asp	Trp 35	His	Ile	His	Leu	Arg 40	Asp	Gly	Asp	Met	Leu 45	Lys	Thr	Val
Val	Pro 50	Tyr	Thr	Ser	Glu	Ile 55	Tyr	Gly	Arg	Ala	Ile 60	Val	Met	Pro	Asn
Leu 65	Val	Pro	Pro	Val	Thr 70	Thr	Val	Glu	Ala	Ala 75	Ile	Ala	Tyr	Arg	Gln 80
Arg	Ile	Leu	Asp	Ala 85	Val	Pro	Ala	Gly	His 90	Asp	Phe	Thr	Pro	Leu 95	Met
Thr	Cys	Tyr	Leu 100	Thr	Asp	Ser	Leu	Asp 105	Pro	Asn	Glu	Val	Glu 110	Arg	Gly
Phe	Asn	Glu 115	Gly	Val	Phe	Thr	Ala 120	Ala	Lys	Leu	Tyr	Pro 125	Ala	Asn	Ala
Thr	Thr 130	Asn	Ser	Ser	His	Gly 135	Val	Thr	Ser	Ile	Asp 140	Ala	Ile	Met	Pro
Val 145	Leu	Glu	Arg	Met	Gln 150	Lys	Leu	Gly	Met	Pro 155	Leu	Leu	Val	His	Gly 160
Glu	Val	Thr	His	Ala 165	Asp	Ile	Asp	Ile	Phe 170	Asp	Arg	Glu	Ala	Arg 175	Phe
Ile	Glu	Thr	Val 180	Met	Glu	Pro	Leu	Arg 185	Gln	Arg	Leu	Pro	Gly 190	Leu	Lys
Val	Val 195	Phe	Glu	His	Ile	Thr	Thr 200	Lys	Asp	Ala	Ala	Glu 205	Tyr	Val	Arg
Asp	Gly 210	Asn	Glu	Leu	Ile	Ala 215	Ala	Thr	Ile	Thr	Pro 220	Gln	His	Leu	Met
Phe 225	Asn	Arg	Asn	His	Met	Leu	Val	Gly	Gly	Val 235	Arg	Pro	His	Leu	Tyr 240
Cys	Leu	Pro	Ile	Leu 245	Lys	Arg	Asn	Ile	His 250	Gln	Gln	Ala	Leu	Arg 255	Glu
Leu	Val	Ala	Ser 260	Gly	Phe	Pro	Arg	Ala	Phe 265	Leu	Gly	Thr	Asp	Ser	Ala
Pro	His	Ala 275	Arg	His	Arg	Lys	Glu	Ala	Ser	Cys	Gly	Cys 285	Ala	Gly	Cys
Phe	Asn 290	Ala	Pro	Thr	Ala	Leu	Ala	Ser	Tyr	Ala	Thr 300	Val	Phe	Glu	Glu
Met 305	Asn	Ala	Leu	Asp	His 310	Phe	Glu	Ala	Phe	Cys 315	Ser	Leu	Asn	Gly	Pro 320
Arg	Phe	Tyr	Gly	Leu	Pro	Ile	Asn	Asp	Thr	Phe	Ile	Glu	Leu	Glu	Arg

				325					330					335			
Lys	Glu	Ser	Gln	Val	Glu	Ala	Ser	Ile	Ala	Leu	Thr	Asp	Asp	Thr	Leu		
			340					345					350				
Ile	Pro	Phe	Leu	Ala	Gly	Glu	Thr	Val	Asn	Trp	Thr	Val	Lys	Arg			
		355					360					365					

<210> 8578

<211> 356

<212> PRT

<213> Enterobacter cloacae

<400> 8578

Arg	Gly	Ala	Leu	Cys	Ala	Gly	Arg	Arg	Ile	Arg	His	Ala	Ser	Ile	Lys		
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Arg	Lys	Pro	Asp	Arg	Ala	Arg	Gly	Ser	Pro	Gly	Arg	Arg	Gly	Cys	Arg		
		20						25					30				
Ala	Glu	Ala	Ala	Ser	Gly	Cys	Val	Thr	Arg	Thr	Ser	Gly	Arg	Leu	Ile		
		35					40					45					
Val	Thr	Thr	Leu	Arg	Ile	Gly	Val	Val	Gly	Leu	Gly	Gly	Ile	Ala	Gln		
	50					55					60						
Lys	Ala	Trp	Leu	Pro	Val	Leu	Gly	Ala	Ala	Ser	Asp	Trp	Thr	Leu	Gln		
65					70					75					80		
Gly	Ala	Trp	Ser	Pro	Thr	Arg	Glu	Lys	Ala	Glu	Arg	Ile	Cys	Lys	Thr		
			85					90						95			
Trp	Arg	Ile	Pro	Tyr	Ala	Gly	Ser	Leu	Gln	Asp	Leu	Ala	Arg	Glu	Cys		
			100					105						110			
Asp	Ala	Val	Phe	Val	His	Thr	Ser	Thr	Ala	Thr	His	Tyr	Gln	Val	Val		
	115						120					125					
Ser	Glu	Leu	Leu	Asn	Ala	Gly	Val	His	Val	Cys	Val	Asp	Lys	Pro	Leu		
	130					135					140						
Ala	Glu	Asn	Val	Gln	Asp	Ala	Glu	Arg	Leu	Ile	Glu	Leu	Ala	Ala	Arg		
145				150						155					160		
Lys	Lys	Leu	Thr	Leu	Met	Val	Gly	Phe	Asn	Arg	Arg	Phe	Ala	Pro	Leu		
			165						170					175			
Tyr	Gln	Gln	Leu	Lys	Ala	Gln	Pro	Gly	Ser	Phe	Ala	Ser	Leu	Arg	Met		
			180					185						190			
Asp	Lys	His	Arg	Thr	Asp	Ser	Val	Gly	Pro	Asn	Asp	Leu	Arg	Phe	Thr		
	195						200					205					
Leu	Leu	Asp	Asp	Tyr	Leu	His	Val	Val	Asp	Thr	Ala	Leu	Trp	Leu	Ser		
	210					215					220						
Asn	Gly	Lys	Ala	Gln	Leu	Gln	Ser	Gly	Thr	Leu	Leu	Thr	Asn	Glu	Gln		
225				230						235					240		
Gly	Glu	Met	Val	Tyr	Ala	Glu	His	His	Phe	Ala	Val	Glu	His	Met	Gln		
			245						250					255			
Val	Thr	Thr	Ser	Met	His	Arg	Arg	Ala	Gly	Ser	Gln	Arg	Glu	Ser	Val		
			260					265					270				
Gln	Ala	Val	Met	Asp	Gly	Ala	Leu	Tyr	Asp	Val	Thr	Asp	Met	Arg	Glu		
	275						280					285					
Trp	Arg	Glu	Glu	Lys	Gly	Asn	Gly	Val	Val	Ala	Leu	Pro	Val	Pro	Gly		
	290					295					300						
Trp	Gln	Ser	Thr	Leu	Glu	Gln	Arg	Gly	Phe	Val	Gly	Cys	Ala	Arg	His		
305					310					315					320		
Phe	Ile	Thr	Cys	Val	Gln	Asn	Gln	Thr	Val	Pro	Glu	Thr	Ser	Gly	Glu		
			325						330					335			
Gln	Ala	Ile	Leu	Ala	Gln	Arg	Ile	Val	Glu	Arg	Leu	Trp	Arg	Glu	Ala		
			340					345					350				
Met	Ser	Glu															
		355															

<210> 8579

<211> 540

<212> PRT

<213> Enterobacter cloacae

<400> 8579

Thr	Lys	Arg	Arg	Leu	Leu	Ala	Leu	Pro	Gly	Gly	Ala	Phe	Ala	Tyr	Pro
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Ser	Trp	Lys	Ser	Val	Gly	Leu	Trp	Asn	Phe	Thr	Leu	Met	Asn	Leu	Leu
			20					25					30		
Lys	Ser	Leu	Ala	Ala	Val	Ser	Ser	Met	Thr	Met	Phe	Ser	Arg	Val	Leu
		35					40					45			
Gly	Phe	Ala	Arg	Asp	Ala	Ile	Val	Ala	Arg	Val	Phe	Gly	Ala	Gly	Met
	50					55					60				
Ala	Thr	Asp	Ala	Phe	Phe	Val	Ala	Phe	Lys	Leu	Pro	Asn	Leu	Leu	Arg
65					70					75					80
Arg	Ile	Phe	Ala	Glu	Gly	Ala	Phe	Ser	Gln	Ala	Phe	Val	Pro	Ile	Leu
				85					90					95	
Ala	Glu	Tyr	Lys	Ser	Lys	Gln	Gly	Glu	Asp	Ala	Thr	Arg	Val	Phe	Val
			100					105					110		
Ala	Tyr	Val	Ser	Gly	Leu	Leu	Thr	Leu	Ala	Leu	Ala	Ile	Val	Thr	Val
		115					120					125			
Leu	Gly	Met	Leu	Ala	Ala	Pro	Trp	Val	Ile	Met	Val	Thr	Ala	Pro	Gly
	130					135					140				
Phe	Ala	Asp	Thr	Ala	Asp	Lys	Phe	Ala	Leu	Thr	Thr	Gln	Leu	Leu	Arg
145					150					155					160
Ile	Thr	Phe	Pro	Tyr	Ile	Leu	Leu	Ile	Ser	Leu	Ala	Ser	Leu	Val	Gly
				165					170					175	
Ala	Ile	Leu	Asn	Thr	Trp	Asn	Arg	Phe	Ser	Val	Pro	Ala	Phe	Ala	Pro
			180					185					190		
Thr	Phe	Leu	Asn	Val	Ser	Met	Ile	Gly	Phe	Ala	Leu	Phe	Ala	Ala	Pro
		195					200					205			
His	Phe	Asn	Pro	Pro	Val	Leu	Ala	Leu	Ala	Trp	Ala	Val	Thr	Val	Gly
		210				215					220				
Gly	Val	Leu	Gln	Leu	Ala	Tyr	Gln	Leu	Pro	His	Leu	Lys	Lys	Ile	Gly
225					230					235					240
Met	Leu	Val	Leu	Pro	Arg	Ile	Ser	Phe	Lys	Asp	Ala	Gly	Ala	Met	Arg
				245					250					255	
Val	Ile	Lys	Gln	Met	Gly	Pro	Ala	Ile	Leu	Gly	Val	Ser	Val	Ser	Gln
			260					265					270		
Ile	Ser	Leu	Ile	Ile	Asn	Thr	Ile	Phe	Ala	Ser	Phe	Leu	Val	Ser	Gly
		275					280					285			
Ser	Val	Ser	Trp	Met	Tyr	Tyr	Ala	Asp	Arg	Leu	Met	Glu	Phe	Pro	Ser
		290				295					300				
Gly	Val	Leu	Gly	Val	Ala	Leu	Gly	Thr	Ile	Leu	Leu	Pro	Ser	Leu	Ser
305					310					315					320
Lys	Ser	Phe	Ala	Ser	Gly	Asn	His	Asp	Glu	Tyr	Cys	Arg	Leu	Met	Asp
				325					330					335	
Trp	Gly	Leu	Arg	Leu	Cys	Phe	Leu	Leu	Ala	Leu	Pro	Ser	Ala	Val	Ala
			340					345					350		
Leu	Gly	Ile	Leu	Ala	Lys	Pro	Leu	Thr	Val	Ser	Leu	Phe	Gln	Tyr	Gly
		355					360					365			
Lys	Phe	Thr	Ala	Phe	Asp	Ala	Ala	Met	Thr	Gln	Arg	Ala	Leu	Val	Ala
		370				375					380				
Tyr	Ser	Val	Gly	Leu	Met	Gly	Leu	Ile	Val	Val	Lys	Val	Leu	Ala	Pro
385					390					395					400
Gly	Phe	Tyr	Ser	Arg	Gln	Asp	Ile	Lys	Thr	Pro	Val	Lys	Ile	Ala	Ile
				405					410					415	
Val	Thr	Leu	Ile	Met	Thr	Gln	Leu	Met	Asn	Leu	Ala	Phe	Ile	Gly	Pro
			420					425					430		
Leu	Lys	His	Ala	Gly	Leu	Ser	Leu	Ser	Ile	Gly	Leu	Ala	Ala	Cys	Leu
		435					440					445			
Asn	Ala	Gly	Leu	Leu	Tyr	Trp	Gln	Leu	Arg	Lys	Gln	Asp	Ile	Phe	Thr

450		455		460											
Pro	Gln	Pro	Gly	Trp	Ala	Ser	Phe	Leu	Leu	Arg	Leu	Ala	Ile	Ala	Val
465					470					475					480
Val	Val	Met	Ala	Ala	Ala	Leu	Val	Gly	Met	Leu	Tyr	Val	Met	Pro	Glu
				485						490					495
Trp	Ala	Gln	Gly	Thr	Met	Pro	Tyr	Arg	Leu	Met	Arg	Leu	Met	Ala	Val
			500						505				510		
Val	Ala	Val	Gly	Val	Val	Ala	Tyr	Phe	Ala	Thr	Leu	Ala	Val	Leu	Gly
		515					520					525			
Phe	Lys	Val	Lys	Glu	Phe	Ala	Arg	Arg	Thr	Val					
530						535					540				

<210> 8580

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 8580

Tyr	Arg	Glu	Glu	His	Asp	Ala	Gln	Asn	Thr	His	Ser	Arg	Pro	Val	Lys
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Glu	Thr	Arg	Met	Ser	Ile	Ala	Val	Asn	Val	Asn	Asp	Pro	Thr	Asn	Thr
			20					25					30		
Gly	Val	Asn	Ser	Thr	Ser	Ser	Ala	Thr	Gly	Ser	Ser	Ser	Leu	Thr	Gly
		35					40					45			
Ser	Asn	Ala	Ser	Asp	Leu	Gln	Ser	Ser	Phe	Leu	Thr	Leu	Leu	Val	Ala
	50					55				60					
Gln	Leu	Lys	Asn	Gln	Asp	Pro	Thr	Asn	Pro	Met	Gln	Asn	Asn	Glu	Leu
65				70					75					80	
Thr	Thr	Gln	Leu	Ala	Gln	Ile	Ser	Thr	Val	Ser	Gly	Ile	Glu	Lys	Leu
			85						90					95	
Asn	Thr	Thr	Leu	Gly	Ser	Val	Ser	Gly	Gln	Ile	Asp	Asn	Ser	Gln	Ser
		100					105					110			
Leu	Gln	Ala	Ala	Asn	Leu	Ile	Gly	His	Gly	Val	Met	Ile	Pro	Gly	Thr
	115						120					125			
Thr	Ile	Leu	Ala	Gly	Thr	Ser	Thr	Thr	Asp	Gly	Thr	Ser	Thr	Thr	Thr
	130					135					140				
Thr	Thr	Pro	Phe	Gly	Val	Glu	Leu	Gln	Gln	Pro	Ala	Asp	Lys	Val	Thr
145				150					155						160
Ala	Thr	Ile	Lys	Asp	Ala	Ser	Gly	Asn	Val	Val	Arg	Thr	Ile	Glu	Ile
			165					170						175	
Gly	Glu	Leu	Lys	Ala	Gly	Val	His	Thr	Phe	Thr	Trp	Asp	Gly	Ser	Leu
		180					185					190			
Thr	Asp	Gly	Thr	Lys	Ala	Pro	Asn	Gly	Ser	Tyr	Gln	Val	Ala	Ile	Ser
	195						200					205			
Ala	Ser	Asn	Gly	Thr	Thr	Gln	Leu	Val	Ala	Gln	Pro	Leu	Gln	Phe	Ala
	210					215					220				
Leu	Val	Gln	Gly	Val	Ile	Lys	Gly	Ser	Asp	Gly	Asn	Lys	Leu	Asp	Leu
225				230					235						240
Gly	Thr	Ser	Gly	Thr	Thr	Leu	Asp	Glu	Val	Arg	Gln	Ile	Ile		
			245					250					255		

<210> 8581

<211> 272

<212> PRT

<213> Enterobacter cloacae

<400> 8581

Pro	Thr	Ser	Gly	Tyr	Glu	Leu	Thr	Gly	Leu	Pro	Met	Ile	Ser	Ser	Leu
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Trp	Ile	Ala	Lys	Thr	Gly	Leu	Asp	Ala	Gln	Gln	Thr	Asn	Met	Asp	Val
			20					25					30		

Ile	Ala	Asn	Asn	Leu	Ala	Asn	Val	Ser	Thr	Asn	Gly	Phe	Lys	Arg	Gln
		35					40					45			
Arg	Ala	Val	Phe	Glu	Asp	Leu	Leu	Tyr	Gln	Thr	Ile	Arg	Gln	Pro	Gly
	50					55					60				
Ala	Gln	Ser	Ser	Glu	Gln	Thr	Thr	Leu	Pro	Ser	Gly	Leu	Gln	Ile	Gly
65					70					75					80
Thr	Gly	Val	Arg	Pro	Val	Ala	Thr	Glu	Arg	Leu	His	Ser	Gln	Gly	Asn
				85					90					95	
Leu	Ser	Gln	Thr	Asn	Asn	Ser	Lys	Asp	Val	Ala	Ile	Lys	Gly	Gln	Gly
			100					105					110		
Phe	Phe	Gln	Val	Gln	Leu	Pro	Asp	Gly	Thr	Ser	Ala	Tyr	Thr	Arg	Asp
	115						120					125			
Gly	Ser	Phe	Gln	Val	Asp	Gln	Asn	Gly	Gln	Leu	Val	Thr	Ala	Gly	Gly
	130					135					140				
Phe	Gln	Val	Gln	Pro	Ala	Ile	Thr	Ile	Pro	Ala	Asn	Ala	Leu	Ser	Ile
145					150					155					160
Thr	Ile	Gly	Arg	Asp	Gly	Ile	Val	Ser	Val	Thr	Gln	Gln	Gly	Gln	Ala
				165					170					175	
Ala	Pro	Val	Gln	Val	Gly	Gln	Leu	Asn	Leu	Thr	Thr	Phe	Met	Asn	Asp
			180					185					190		
Thr	Gly	Leu	Glu	Ser	Ile	Gly	Glu	Asn	Leu	Tyr	Thr	Glu	Thr	Gln	Ser
	195						200					205			
Ser	Gly	Thr	Pro	Asn	Glu	Ser	Thr	Pro	Gly	Leu	Asn	Gly	Ala	Gly	Leu
	210					215					220				
Leu	Tyr	Gln	Gly	Tyr	Val	Glu	Thr	Ser	Asn	Val	Asn	Val	Ala	Glu	Glu
225					230					235					240
Leu	Val	Asn	Met	Ile	Gln	Val	Gln	Arg	Ala	Tyr	Glu	Ile	Asn	Ser	Lys
			245						250					255	
Ala	Val	Ser	Thr	Asp	Gln	Met	Leu	Gln	Lys	Leu	Thr	Gln	Leu		
			260				265						270		

<210> 8582

<211> 252

<212> PRT

<213> Enterobacter cloacae

<400> 8582

Gly	Val	Ala	Arg	Cys	Gly	Lys	Arg	Arg	Thr	Gly	Ser	Leu	Phe	Ser	Lys
1				5					10					15	
Met	Lys	Ala	Met	Gln	Lys	Asn	Ala	Ala	Phe	Arg	Tyr	Pro	Ile	Leu	Thr
			20					25					30		
Val	Leu	Ala	Val	Thr	Leu	Ser	Gly	Cys	Ala	Trp	Ile	Pro	Ser	Lys	Pro
	35						40					45			
Leu	Val	Gln	Gly	Ala	Thr	Thr	Ala	Gln	Pro	Val	Pro	Gly	Pro	Ala	Pro
	50					55					60				
Val	Val	Asn	Gly	Ser	Ile	Phe	Gln	Thr	Ala	Gln	Pro	Ile	Asn	Tyr	Gly
65					70					75					80
Tyr	Gln	Pro	Leu	Phe	Glu	Asp	Arg	Arg	Pro	Arg	Asn	Val	Gly	Asp	Thr
				85					90					95	
Leu	Thr	Ile	Val	Leu	Gln	Glu	Asn	Val	Ser	Ala	Ser	Lys	Ser	Ser	Ser
			100					105					110		
Ala	Asn	Ala	Ser	Arg	Asp	Gly	Lys	Thr	Asn	Phe	Gly	Phe	Asp	Thr	Val
		115					120					125			
Pro	Arg	Tyr	Leu	Gln	Gly	Leu	Phe	Gly	Asn	Ala	Arg	Ala	Asp	Val	Glu
	130					135					140				
Ala	Ser	Gly	Gly	Asn	Thr	Phe	Asn	Gly	Lys	Gly	Gly	Ala	Asn	Ala	Ser
145					150					155					160
Asn	Thr	Phe	Ser	Gly	Thr	Leu	Thr	Val	Thr	Val	Asp	Gln	Val	Leu	Val
				165					170					175	
Asn	Gly	Asn	Leu	His	Val	Val	Gly	Glu	Lys	Gln	Ile	Ala	Ile	Asn	Gln
			180					185					190		

Gly	Thr	Glu	Phe	Ile	Arg	Phe	Ser	Gly	Val	Val	Asn	Pro	Arg	Thr	Ile
		195					200					205			
Ser	Gly	Thr	Asn	Thr	Val	Pro	Ser	Thr	Gln	Val	Ala	Asp	Ala	Arg	Ile
	210					215					220				
Glu	Tyr	Val	Gly	Asn	Gly	Tyr	Ile	Asn	Glu	Ala	Gln	Asn	Met	Gly	Trp
225					230					235					240
Leu	Gln	Arg	Phe	Phe	Leu	Asn	Leu	Ser	Pro	Met					
				245					250						

<210> 8583

<211> 367

<212> PRT

<213> Enterobacter cloacae

<400> 8583

Pro	Met	Tyr	Lys	Phe	Leu	Phe	Ala	Val	Ala	Leu	Ser	Leu	Val	Ala	Thr
1				5				10						15	
Val	Ala	Gln	Ala	Asp	Arg	Ile	Arg	Asp	Leu	Thr	Ser	Val	Gln	Gly	Val
		20						25					30		
Arg	Glu	Asn	Ser	Leu	Ile	Gly	Tyr	Gly	Leu	Val	Val	Gly	Leu	Asp	Gly
		35					40					45			
Thr	Gly	Asp	Gln	Thr	Thr	Gln	Thr	Pro	Phe	Thr	Thr	Gln	Ser	Leu	Asn
	50					55					60				
Asn	Met	Leu	Ser	Gln	Leu	Gly	Ile	Thr	Val	Pro	Ala	Gly	Thr	Asn	Met
65					70					75					80
Gln	Leu	Lys	Asn	Val	Ala	Ala	Val	Met	Val	Thr	Ala	Ser	Tyr	Pro	Ala
				85					90					95	
Phe	Ala	Arg	Gln	Gly	Gln	Thr	Ile	Asp	Val	Val	Val	Ser	Ser	Met	Gly
			100					105					110		
Asn	Ala	Lys	Ser	Leu	Arg	Gly	Gly	Thr	Leu	Leu	Met	Thr	Pro	Leu	Lys
		115					120					125			
Gly	Val	Asp	Ser	Gln	Val	Tyr	Ala	Leu	Ala	Gln	Gly	Asn	Ile	Leu	Val
	130					135					140				
Gly	Gly	Ala	Gly	Ala	Ser	Ala	Gly	Gly	Ser	Ser	Val	Gln	Val	Asn	Gln
145					150					155					160
Leu	Asn	Gly	Gly	Arg	Ile	Thr	Asn	Gly	Ala	Ile	Ile	Glu	Arg	Glu	Leu
				165				170						175	
Pro	Thr	Gln	Phe	Gly	Thr	Gly	Asn	Thr	Ile	Asn	Leu	Gln	Leu	Asn	Asn
		180						185					190		
Glu	Asp	Phe	Thr	Met	Ala	Gln	Gln	Ile	Ala	Asp	Thr	Ile	Asn	Arg	Ser
		195					200					205			
Arg	Gly	Tyr	Gly	Ser	Ala	Thr	Ala	Leu	Asp	Ala	Arg	Thr	Val	Gln	Ile
	210					215					220				
Arg	Thr	Ser	Thr	Gly	Ser	Ser	Asn	Gln	Val	Arg	Met	Leu	Ala	Asp	Ile
225					230					235					240
Gln	Asn	Met	Glu	Val	Asn	Val	Pro	Val	Gln	Asp	Ala	Lys	Val	Ile	Ile
				245					250					255	
Asn	Ser	Arg	Thr	Gly	Ser	Val	Val	Met	Asn	Arg	Glu	Val	Thr	Leu	Asp
		260						265					270		
Ser	Cys	Ala	Val	Ala	Gln	Gly	Asn	Leu	Ser	Val	Thr	Val	Asn	Arg	Ser
		275					280					285			
Ala	Asn	Val	Ser	Gln	Pro	Asp	Thr	Pro	Phe	Gly	Gly	Gly	Gln	Thr	Val
	290					295					300				
Val	Thr	Pro	Gln	Thr	Gln	Ile	Asp	Leu	Arg	Gln	Ser	Gly	Gly	Ser	Leu
305					310					315					320
Gln	Ser	Val	Arg	Ser	Ser	Ala	Asn	Leu	Asn	Ser	Val	Val	Arg	Ala	Leu
				325					330					335	
Asn	Ala	Leu	Gly	Ala	Thr	Pro	Met	Asp	Leu	Met	Ser	Ile	Leu	Gln	Ser
			340					345					350		
Met	Gln	Ser	Ala	Gly	Cys	Leu	Arg	Ala	Lys	Leu	Glu	Ile	Ile		
		355					360					365			

<210> 8584
 <211> 318
 <212> PRT
 <213> Enterobacter cloacae

<400> 8584

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Met Leu Thr Asp Ser Lys Leu Leu Thr Ser Ala Ala Trp Asp Ala Gln
1      5      10      15
Ser Leu Asn Glu Leu Lys Thr Lys Ala Gly Lys Asp Pro Ala Ala Asn
20      25      30
Ile Arg Pro Val Ala Arg Gln Val Glu Gly Met Phe Val Gln Met Met
35      40      45
Leu Lys Ser Met Arg Glu Thr Leu Pro Lys Asp Gly Met Phe Ser Ser
50      55      60
Asp Ser Thr Arg Leu Tyr Thr Ser Met Tyr Asp Gln Gln Ile Ala Gln
65      70      75      80
Gln Met Thr Ala Gly Lys Gly Leu Gly Leu Ala Asp Met Ile Val Lys
85      90      95
Gln Thr Ala Ala Ala Gln Gly Leu Pro Glu Glu Ala Pro Gln Gln
100     105     110
Val Pro Leu Lys Phe Asp Leu Glu Lys Val Thr Ser Tyr Gln Asn Gln
115     120     125
Ala Leu Thr Gln Met Val Arg Lys Ala Met Pro Lys Pro Ala Glu Thr
130     135     140
Arg Asp Glu Pro Leu Ser Gly Asp Ser Lys Asp Phe Leu Ala Gln Leu
145     150     155     160
Ser Leu Pro Ala Arg Leu Ala Ser Glu Glu Ser Gly Val Pro His His
165     170     175
Leu Ile Leu Ala Gln Ala Ala Leu Glu Ser Gly Trp Gly Gln Arg Gln
180     185     190
Ile Arg Arg Glu Asn Gly Glu Pro Ser Phe Asn Ile Phe Gly Val Lys
195     200     205
Ala Thr Ser Ser Trp Lys Gly Pro Thr Thr Glu Ile Thr Thr Thr Glu
210     215     220
Tyr Glu Asn Gly Ala Ala Val Lys Val Lys Ala Lys Phe Arg Val Tyr
225     230     235     240
Ser Ser Tyr Leu Glu Ala Leu Ser Asp Tyr Val Gly Leu Leu Ser Arg
245     250     255
Asn Pro Arg Tyr Thr Ala Val Thr Gln Ala Ala Thr Pro Glu Gln Gly
260     265     270
Ala Gln Ala Leu Gln Asn Ala Gly Tyr Ala Thr Asp Pro Asn Tyr Ala
275     280     285
Arg Lys Leu Thr Ser Met Ile Gln Gln Leu Lys Ser Met Ser Glu Lys
290     295     300
Val Ser Lys Ala Tyr Ser Thr Asp Leu Glu Asn Leu Phe
305     310     315

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<210> 8585
 <211> 561
 <212> PRT
 <213> Enterobacter cloacae

<400> 8585

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Pro Ser Ser Gly Leu Val Ser Glu Arg Ile Lys Gly Thr Pro Met Ser
1      5      10      15
Ser Leu Ile Asn Ser Ala Met Ser Gly Leu Ser Ala Ala Gln Ser Ala
20      25      30
Leu Asn Thr Val Ser Asn Asn Ile Ser Ser Tyr Asn Val Ala Gly Tyr
35      40      45
Thr Arg Gln Thr Thr Ile Leu Gly Ala Ser Asn Ser Thr Leu Thr Gly

```

50	55	60
Gly Gly Trp Val Gly Asn Gly Val Tyr Val Ser Gly Val Gln Arg Glu		
65	70	75
Tyr Asp Ala Phe Ile Thr Asn Gln Leu Arg Ala Ala Gln Asn Gln Ser		80
	85	90
Ser Gly Leu Thr Thr Arg Tyr Gln Gln Met Ser Lys Ile Asp Asp Val		95
	100	105
Leu Ser Asp Thr Thr Asn Ser Leu Ser Ala Asn Leu Gln Asp Phe Phe		110
	115	120
Lys Ser Leu Gln Thr Leu Val Ser Asn Ala Glu Asp Pro Ala Ala Arg		125
	130	135
Gln Thr Val Leu Gly Lys Ala Asp Gly Leu Val Asn Gln Phe Lys Thr		140
145	150	155
Asn Asp Gln Tyr Leu Arg Asp Gln Asp Ala Gln Val Asn Thr Ala Ile		160
	165	170
Ser Thr Ser Val Asp Gln Ile Asn Asn Tyr Ala Lys Gln Ile Ala Asn		175
	180	185
Leu Asn Asp Gln Ile Ser Arg Leu Thr Gly Val Gly Ala Gly Ala Ser		190
	195	200
Pro Asn Glu Leu Leu Asp Gln Arg Asp Gln Leu Val Ser Glu Leu Asn		205
	210	215
Lys Ile Val Gly Val Asp Val Thr Val Gln Asp Ser Gly Thr Tyr Asn		220
225	230	235
Ile Ser Ile Ala Asn Gly Tyr Thr Leu Val Gln Gly Ser Asn Ala Ser		240
	245	250
Gln Leu Ala Ala Val Lys Ser Ser Ala Asp Pro Ala Arg Thr Thr Ile		255
	260	265
Ala Tyr Val Asp Ala Ala Ala Gly Asn Val Glu Ile Ser Glu Lys Gln		270
	275	280
Ile Thr Thr Gly Ser Leu Gly Gly Leu Leu Thr Phe Arg Ser Gln Asp		285
	290	295
Leu Asp Gln Ala Arg Asn Thr Leu Asn Gln Met Ala Leu Ala Phe Ala		300
305	310	315
Asp Ala Met Asn Thr Gln His Gln Ala Gly Phe Asp Ala Asn Gly Asp		320
	325	330
Lys Gly Gly Lys Leu Phe Asp Phe Gly Ser Pro Ala Val Leu Ser Asn		335
	340	345
Gly Lys Asn Thr Gly Ser Ala Ser Val Thr Ala Thr Met Thr Asp Ser		350
	355	360
Thr Lys Val Gln Ala Thr Asn Tyr Lys Val Glu Tyr Asn Gly Thr Asp		365
	370	375
Trp Thr Ile Thr Arg Leu Ser Asp Asn Thr Ser Phe Thr Ala Lys Pro		380
385	390	395
Asp Ala Ser Gly Asn Leu Ser Phe Asp Gly Leu Asn Val Lys Ile Ser		400
	405	410
Gly Ser Ala Asn Asn Lys Asp Ser Phe Ile Val Lys Pro Val Asn Asp		415
	420	425
Val Ile Val Asn Met Asp Val Ala Ile Ser Asp Glu Ser Lys Leu Ala		430
	435	440
Met Ala Ser Ala Gln Gly Ser Gly Glu Ser Asp Asn Thr Asn Gly Gln		445
	450	455
Lys Leu Leu Asp Leu Gln Ser Ala Lys Leu Val Gly Gly Asn Lys Thr		460
465	470	475
Phe Asn Asp Ala Tyr Ala Ala Leu Val Ser Thr Val Gly Ser Thr Thr		480
	485	490
Ala Ser Leu Lys Thr Ser Ser Glu Thr Lys Val Asn Val Val Thr Gln		495
	500	505
Leu Thr Lys Gln Gln Gln Ser Ile Ser Gly Val Asn Leu Asp Glu Glu		510
	515	520
Tyr Gly Asn Leu Gln Arg Tyr Gln Gln Tyr Tyr Leu Ala Asn Ala Gln		525
530	535	540

Val Leu Gln Thr Ala Ser Thr Leu Phe Asp Ala Leu Ile Asn Ile Arg
 545 550 555 560

<210> 8586
 <211> 65
 <212> PRT
 <213> Enterobacter cloacae

<400> 8586
 Lys Ile Asn Thr Ser Tyr Ala Ile Ala Ala Trp Met Ile Gly Gln Thr
 1 5 10 15
 Lys Leu Val Ile Pro Ser Thr Ser Leu Gln Asn Pro Asp Leu Thr Arg
 20 25 30
 Lys Thr Asp Ser Leu Phe His Cys Ser Pro Gly Tyr Ser Lys Met Thr
 35 40 45
 Phe Thr Asn Tyr His Pro Val Thr His Ser Phe Phe Thr Ser Thr Gly
 50 55 60

65

<210> 8587
 <211> 178
 <212> PRT
 <213> Enterobacter cloacae

<400> 8587
 Tyr Ala Arg Pro Met Gln Lys Val Lys Leu Pro Leu Thr Leu Asp Pro
 1 5 10 15
 Val Arg Thr Ala Gln Lys Arg Leu Asp Tyr Glu Gly Ile Tyr Ser Ser
 20 25 30
 Asp Gln Ala Glu Arg Ile Ala Glu Ser Val Val Ser Val Asp Ser Asp
 35 40 45
 Val Glu Cys Ser Met Ser Phe Ala Ile Asp Asn Gln Arg Leu Ala Val
 50 55 60
 Leu Thr Gly Asp Ala Lys Val Thr Val Thr Leu Glu Cys Gln Arg Cys
 65 70 75 80
 Gly Lys Pro Phe Val Gln His Val His Thr Thr Tyr Cys Phe Ser Pro
 85 90 95
 Val Arg Ser Asp Glu Gln Ala Glu Ala Leu Pro Glu Ala Tyr Glu Pro
 100 105 110
 Ile Glu Val Asn Glu Phe Gly Glu Ile Asp Leu Leu Ala Leu Val Glu
 115 120 125
 Asp Glu Val Ile Leu Ser Leu Pro Val Val Pro Val His Asp Ser Glu
 130 135 140
 His Cys Glu Val Ser Glu Ala Asp Met Val Phe Gly Glu Leu Pro Asp
 145 150 155 160
 Glu Ala Gln Lys Pro Asn Pro Phe Ala Val Leu Ala Ser Leu Lys Arg
 165 170 175

Lys

<210> 8588
 <211> 207
 <212> PRT
 <213> Enterobacter cloacae

<400> 8588
 Gln Ala Glu Gln Lys Arg Arg Glu Gly Val Val Thr Met Phe Gly Tyr
 1 5 10 15

Arg	Ser	Asn	Val	Pro	Lys	Val	Arg	Leu	Thr	Thr	Asp	Arg	Leu	Val	Val
			20					25					30		
Arg	Leu	Val	His	Glu	Arg	Asp	Ala	Trp	Arg	Leu	Ala	Asp	Tyr	Tyr	Ala
		35					40					45			
Glu	Asn	Arg	Gln	Phe	Leu	Lys	Pro	Trp	Glu	Pro	Val	Arg	Asp	Glu	Ser
	50					55					60				
His	Cys	Tyr	Pro	Ser	Gly	Trp	Gln	Ala	Arg	Leu	Ser	Met	Ile	Ala	Glu
65					70					75				80	
Phe	His	Lys	Gln	Gly	Ser	Ala	Phe	Tyr	Phe	Ala	Leu	Leu	Asp	Pro	Glu
			85					90						95	
Glu	Lys	Glu	Ile	Val	Gly	Ile	Ala	Asn	Phe	Ser	Asn	Val	Val	Arg	Gly
			100					105					110		
Ser	Phe	His	Ala	Cys	Tyr	Leu	Gly	Tyr	Ser	Ile	Gly	Gln	Lys	Trp	Gln
		115					120					125			
Gly	Gln	Gly	Leu	Met	Phe	Glu	Ala	Leu	Thr	Ala	Ala	Ile	Arg	Tyr	Met
	130					135					140				
Gln	Arg	Thr	Gln	His	Ile	His	Arg	Ile	Met	Ala	Asn	Tyr	Met	Pro	His
145					150					155				160	
Asn	Lys	Arg	Ser	Gly	Asp	Leu	Leu	Ala	Arg	Leu	Gly	Phe	Glu	Lys	Glu
				165					170					175	
Gly	Tyr	Ala	Lys	Asp	Tyr	Leu	Leu	Ile	Asp	Gly	Glu	Trp	Arg	Asp	His
			180					185					190		
Val	Leu	Thr	Ala	Leu	Thr	Thr	Gln	Glu	Trp	Thr	Ala	Gly	Arg		
		195					200					205			

<210> 8589

<211> 220

<212> PRT

<213> Enterobacter cloacae

<400> 8589

Gly	Glu	Lys	Met	Lys	Tyr	Gln	Leu	Asn	Gly	Ala	Glu	Ala	Arg	Val	Ile
1				5					10					15	
Gly	Cys	Leu	Leu	Glu	Lys	Gln	Val	Thr	Thr	Pro	Glu	Gln	Tyr	Pro	Leu
		20						25					30		
Ser	Val	Asn	Ala	Val	Thr	Met	Ala	Cys	Asn	Gln	Lys	Thr	Asn	Arg	Glu
		35					40					45			
Pro	Val	Met	Asn	Leu	Gly	Glu	His	Glu	Val	Gln	Asp	Ile	Leu	Asp	Glu
	50					55					60				
Leu	Val	Lys	Arg	His	Tyr	Leu	Arg	Thr	Val	Ser	Gly	Phe	Gly	Asn	Arg
65					70				75					80	
Val	Thr	Lys	Tyr	Glu	Gln	Arg	Phe	Cys	Asn	Ser	Glu	Phe	Gly	Asp	Leu
			85					90						95	
Lys	Leu	Ser	Ala	Ala	Glu	Val	Ala	Val	Ile	Thr	Thr	Leu	Leu	Leu	Arg
			100					105					110		
Gly	Ala	Gln	Thr	Pro	Gly	Glu	Leu	Arg	Ala	Arg	Ala	Ser	Arg	Met	His
		115					120					125			
Glu	Phe	Gln	Asp	Met	Gln	Asp	Val	Glu	Gln	Thr	Leu	Glu	Gly	Leu	Ala
	130					135					140				
Ser	Arg	Glu	Asp	Gly	Pro	Tyr	Val	Val	Arg	Leu	Pro	Arg	Glu	Pro	Gly
145					150				155					160	
Lys	Arg	Glu	Ser	Arg	Tyr	Met	His	Leu	Phe	Ser	Gly	Asp	Val	Glu	Pro
			165					170						175	
Ser	Ala	Leu	Ala	Val	Val	Ser	Asp	Thr	Pro	Ala	Ser	Asn	Glu	Ser	Leu
		180						185					190		
Thr	Ala	Arg	Val	Ala	Ala	Leu	Glu	Asp	Glu	Val	Ala	Gly	Leu	Lys	Gln
		195					200					205			
Arg	Leu	Asp	Ala	Leu	Leu	Ala	His	Leu	Gly	Asp					
	210					215					220				

<210> 8590

<211> 147
 <212> PRT
 <213> Enterobacter cloacae

<400> 8590

Asn	Phe	Leu	Ile	Ser	Gly	Gly	Asp	Met	Leu	Asp	Lys	Leu	Asp	Ala	Ala	
1				5					10					15		
Leu	Arg	Phe	Gln	Gln	Glu	Ala	Leu	Asn	Leu	Arg	Ala	Gln	Arg	Gln	Glu	
			20					25					30			
Ile	Leu	Ala	Ala	Asn	Ile	Ala	Asn	Ala	Asp	Thr	Pro	Gly	Tyr	Gln	Ala	
		35					40					45				
Arg	Asp	Ile	Asp	Phe	Ser	Ser	Glu	Leu	Lys	Lys	Val	Met	Glu	Arg	Gly	
	50					55					60					
Arg	Ala	Glu	Gly	Thr	Gly	Val	Ser	Leu	Ala	Leu	Thr	Ser	Ser	Arg	His	
65					70					75					80	
Ile	Pro	Ala	Gln	Ala	Met	Thr	Ala	Pro	Thr	Thr	Asp	Leu	Leu	Tyr	Arg	
				85				90						95		
Ile	Pro	Asp	Gln	Pro	Ser	Leu	Asp	Gly	Asn	Thr	Val	Asp	Met	Asp	Arg	
		100						105					110			
Glu	Arg	Thr	Gln	Phe	Ala	Asp	Asn	Ser	Leu	Gln	Tyr	Gln	Thr	Gly	Leu	
		115					120					125				
Thr	Leu	Leu	Gly	Gly	Gln	Ile	Lys	Gly	Met	Met	Thr	Val	Leu	Gln	Gly	
	130					135					140					
Gly	Asn															
145																

<210> 8591
 <211> 135
 <212> PRT
 <213> Enterobacter cloacae

<400> 8591

Met	Ala	Leu	Leu	Asn	Ile	Phe	Asp	Ile	Ala	Gly	Ser	Ala	Leu	Thr	Ala	
1				5					10					15		
Gln	Ser	Lys	Arg	Leu	Asn	Val	Ala	Ala	Ser	Asn	Leu	Ala	Asn	Ala	Asp	
			20					25					30			
Ser	Val	Thr	Gly	Pro	Asp	Gly	Gln	Pro	Tyr	Arg	Ala	Lys	Gln	Val	Val	
		35					40					45				
Phe	Gln	Val	Asp	Ala	Ala	Pro	Gly	Ala	Ala	Thr	Gly	Gly	Val	Lys	Val	
	50					55				60						
Ala	Asp	Val	Val	Glu	Ser	Gln	Ala	Pro	Asp	Lys	Leu	Val	Tyr	Glu	Pro	
65					70				75						80	
Gly	Asn	Pro	Leu	Ala	Asp	Ala	Ser	Gly	Tyr	Val	Lys	Met	Pro	Asn	Val	
				85				90					95			
Asp	Val	Val	Gly	Glu	Met	Val	Asn	Ser	Met	Ser	Ala	Ser	Arg	Ser	Tyr	
		100						105					110			
Gln	Ala	Asn	Val	Glu	Val	Leu	Asn	Thr	Val	Lys	Ser	Met	Met	Leu	Lys	
		115					120					125				
Thr	Leu	Thr	Leu	Gly	Gln											
	130					135										

<210> 8592
 <211> 256
 <212> PRT
 <213> Enterobacter cloacae

<400> 8592

Arg	Glu	Ser	Ala	Met	Asp	His	Ala	Ile	Tyr	Thr	Ala	Met	Gly	Ala	Ala	
1				5					10					15		
Ser	Gln	Thr	Leu	Asn	Gln	Gln	Ala	Val	Thr	Ala	Ser	Asn	Leu	Ala	Asn	
			20					25					30			

Ala Ser Thr Pro Gly Phe Arg Ala Gln Leu Asn Ala Leu Arg Ala Val
 35 40 45
 Pro Val Glu Gly Leu Ser Leu Pro Thr Arg Thr Leu Val Thr Ala Ser
 50 55 60
 Thr Pro Gly Ala Asp Met Thr Pro Gly Gln Met Asp Tyr Thr Ala Arg
 65 70 75 80
 Pro Leu Asp Val Ala Leu Gln Gln Asp Gly Trp Leu Ala Val Gln Thr
 85 90 95
 Ala Asp Gly Gly Glu Gly Tyr Thr Arg Asn Gly Asn Ile Gln Val Ser
 100 105 110
 Ala Thr Gly Gln Leu Thr Ile Gln Gly His Pro Val Met Gly Glu Ala
 115 120 125
 Gly Pro Leu Thr Val Pro Glu Gly Ser Glu Leu Thr Ile Ala Ala Asp
 130 135 140
 Gly Thr Ile Ser Ala Leu Asn Pro Gly Asp Pro Ala Asn Thr Val Ala
 145 150 155 160
 Pro Val Gly Arg Leu Lys Leu Val Lys Ala Glu Gly Asn Glu Val Gln
 165 170 175
 Arg Gly Asp Asp Gly Met Phe Arg Leu Thr Gln Ala Ala Gln Ala Thr
 180 185 190
 Arg Gly Ala Thr Leu Gln Ala Asp Pro Thr Ile Arg Val Met Ser Gly
 195 200 205
 Val Leu Glu Gly Ser Asn Val Lys Pro Val Glu Ala Met Thr Asp Met
 210 215 220
 Ile Ala Ser Ala Arg Arg Phe Glu Met Gln Met Lys Ile Ile Ser Ser
 225 230 235 240
 Val Asp Glu Asn Ala Gly Lys Ala Asn Gln Leu Leu Ala Met Ser
 245 250 255

<210> 8593

<211> 319

<212> PRT

<213> Enterobacter cloacae

<400> 8593

Lys Met Arg Ile Ser Thr Gln Met Met Tyr Glu Gln Ser Met Arg Gly
 1 5 10 15
 Val Thr Asn Ser Gln Ser Leu Trp Leu Ser Tyr Gly Glu Gln Met Ser
 20 25 30
 Thr Gly Lys Arg Ile Asn Arg Pro Ser Asp Asp Pro Ile Ala Ala Ser
 35 40 45
 Gln Ala Val Val Leu Ser Gln Ala Gln Thr Gln Asn Ser Gln Tyr Ala
 50 55 60
 Leu Ala Arg Ser Phe Ala Thr Thr Lys Val Ser Leu Glu Glu Asn Val
 65 70 75 80
 Leu Ser Gln Val Thr Ala Ile Gln Ala Ala Gln Glu Lys Ile Val
 85 90 95
 Asn Ala Gly Asn Gly Thr Leu Ser Asp Asp Arg Ala Ser Leu Ala
 100 105 110
 Thr Asn Leu Gln Gly Ile Arg Asp Gln Leu Met Asn Leu Ala Asn Ser
 115 120 125
 Thr Asp Gly Asn Gly Arg Tyr Ile Phe Ser Gly Tyr Lys Thr Glu Ala
 130 135 140
 Ala Ala Phe Asp Gln Thr Thr Gly Asp Tyr Lys Gly Gly Gly Thr Pro
 145 150 155 160
 Ile Ser Gln Gln Val Asp Ser Ala Arg Thr Met Gln Ile Ser His Thr
 165 170 175
 Gly Thr Glu Val Phe Asp Ser Phe Thr Ser Asn Ala Lys Pro Glu Pro
 180 185 190
 Asp Gly Ser Lys Pro Glu Thr Asn Leu Phe Lys Ile Leu Asp Ser Ala
 195 200 205


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Ile Glu Ala Leu Asn Thr Pro Ile Gly Glu Asp Glu Thr Lys Ala Glu
  210                215                220
Ala Phe Thr Ala Ala Ile Asp Lys Ala Asn Arg Gly Leu Ser Asn Ser
225                230                235                240
Leu Asn Asn Val Leu Thr Val Arg Ala Asp Leu Gly Ile Lys Leu Asp
                245                250                255
Glu Leu Gly Lys Leu Asp Ala Leu Gly Glu Asp Arg Ala Leu Gly Gln
                260                265                270
Thr Gln Gln Met Ser Asn Leu Val Asp Val Asp Trp Asn Ser Val Ile
                275                280                285
Ser Ser Tyr Thr Met Gln Gln Ala Ala Leu Gln Ala Ser Tyr Lys Ala
290                295                300
Phe Ser Asp Met Gln Gly Met Ser Leu Phe Gln Met Asn Arg
305                310                315

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<210> 8594

<211> 319

<212> PRT

<213> Enterobacter cloacae

<400> 8594

```

Arg Met Asp Gly Asn Gly Met Lys Arg Pro Glu Arg Ile Asp Arg Val
1          5          10          15
Glu Leu Met Arg Thr Phe Val Arg Ile Val Glu Ala Gly Ser Leu Ser
20          25          30
Ala Ala Ala Arg Gln Leu Ala Thr Thr Gln Ala Thr Val Ser Arg Arg
35          40          45
Leu Gln Ser Leu Glu Thr Met Leu Gly Val Arg Leu Met Leu Arg Thr
50          55          60
Thr His Thr Thr Arg Leu Thr Asp Asp Gly Glu Arg Cys Tyr Gln His
65          70          75          80
Ala Arg Arg Val Ile Asp Ser Trp Leu Ala Leu Glu Asp Glu Val Gly
85          90          95
Gln Thr Glu Asp Glu Pro Val Gly Val Leu Arg Val Arg Ala Pro His
100         105         110
Ala Phe Gly Gln Asp Gln Leu Leu Lys Pro Leu Thr Glu Phe Leu Gln
115         120         125
Arg Tyr Pro Gln Leu Ser Val Glu Trp Met Leu Asn Asp Arg Ser Val
130         135         140
Asp Phe Leu Gly Asp Asn Leu Asp Cys Ala Ile Arg Val Gly Val Glu
145         150         155         160
Val Asp Pro Ala Thr Val Ser Val Leu Leu Ala Glu Val Pro Arg Ser
165         170         175
Val Val Ala Ser Pro Glu Leu Leu Ala Arg Tyr Pro Ala Val Lys Thr
180         185         190
Pro Glu Asp Leu Gln Gln Leu Pro Trp Ile Ala Ile Ser Ser Phe Tyr
195         200         205
Gln Arg His Val Glu Leu Phe His Asp Ala Ser Ser Ala Pro Thr Arg
210         215         220
Val Thr Ile Thr Pro Arg Leu Ser Thr Asp Ser Leu Tyr Val Ala Arg
225         230         235         240
Asn Thr Ala Leu Thr Gly Leu Gly Val Ala Val Val Ser Ser Trp Thr
245         250         255
Val Gln Asp Asp Ile Gln Glu Gly Arg Leu Val His Leu Leu Pro Glu
260         265         270
Trp Gln Pro Ala Ala Leu Pro Val His Leu Val Tyr Pro Trp Ser Arg
275         280         285
Tyr Tyr Pro Ala Arg Leu Arg Arg Phe Leu Glu Leu Met Arg Gln Ile
290         295         300
Met Pro Glu Val Thr Gly Met Arg Lys Pro Leu Gln Gln Pro
305         310         315

```

<210> 8595

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 8595

Gly	Val	Arg	Ser	Met	Ala	Val	Gln	Gln	Asn	Lys	Pro	Thr	Arg	Ser	Lys
1				5					10					15	
Arg	Gly	Met	Arg	Arg	Ser	His	Asp	Ala	Leu	Thr	Ala	Val	Thr	Ser	Leu
		20					25						30		
Ser	Val	Asp	Lys	Thr	Ser	Gly	Glu	Lys	His	Leu	Arg	His	His	Ile	Thr
		35					40					45			
Ala	Asp	Gly	Phe	Tyr	Arg	Gly	Arg	Lys	Val	Ile	Thr	Lys			
	50					55					60				

<210> 8596

<211> 107

<212> PRT

<213> Enterobacter cloacae

<400> 8596

Ser	Arg	Val	Ser	Val	Ile	Arg	Leu	Ser	Glu	Glu	Leu	Pro	Arg	Ala	Asn
1				5					10					15	
Gly	Glu	Phe	Thr	Glu	Pro	Gly	Cys	Asp	Asp	Thr	Leu	Thr	Arg	Leu	Thr
		20					25						30		
Leu	Ala	Leu	Asp	Val	Met	Gly	Gly	Asp	Phe	Gly	Pro	Thr	Val	Thr	Val
		35					40					45			
Ala	Ala	Ala	Leu	Gln	Ala	Leu	Asn	Ser	Asn	Ser	Gln	Leu	Lys	Leu	Leu
	50					55					60				
Leu	Phe	Gly	Asn	Pro	Asp	Thr	Ile	Thr	Pro	Leu	Leu	Gly	Lys	Thr	Asp
65					70					75					80
Leu	Asp	Gln	Arg	Ser	Arg	Pro	Gln	Ile	Ile	Pro	Gly	Gln	Ser	Arg	Met
				85					90					95	
Pro	Met	Met	Pro	Gly	Leu	Ala	Cys	Phe	Pro						
			100						105						

<210> 8597

<211> 404

<212> PRT

<213> Enterobacter cloacae

<400> 8597

Val	Met	Ala	Phe	Ser	Gln	Ala	Val	Ser	Gly	Leu	Asn	Ala	Ala	Ala	Thr
1				5					10					15	
Asn	Leu	Asp	Val	Ile	Gly	Asn	Asn	Ile	Ala	Asn	Ser	Ala	Thr	Tyr	Gly
		20					25						30		
Phe	Lys	Ser	Gly	Ser	Ala	Ser	Phe	Ala	Asp	Met	Phe	Ala	Gly	Ser	Lys
		35					40					45			
Val	Gly	Leu	Gly	Val	Lys	Val	Ala	Gly	Ile	Thr	Gln	Asp	Phe	Thr	Asp
	50					55					60				
Gly	Thr	Thr	Thr	Asn	Thr	Gly	Arg	Gly	Leu	Asp	Val	Ala	Ile	Ser	Gln
65					70					75					80
Asn	Gly	Phe	Phe	Arg	Met	Val	Asp	Ala	Asn	Gly	Ser	Val	Phe	Tyr	Ser
				85				90						95	
Arg	Asn	Gly	Gln	Phe	Lys	Leu	Asp	Glu	Asn	Arg	Asn	Leu	Val	Asn	Met
			100					105					110		
Gln	Gly	Leu	Gln	Leu	Thr	Gly	Tyr	Pro	Val	Ala	Gly	Thr	Pro	Pro	Thr
		115				120						125			
Val	Gln	Thr	Gly	Ala	Asn	Pro	Gln	Ala	Ile	Ser	Ile	Pro	Thr	Thr	Leu
	130					135						140			

Met Ala Ala Lys Ser Thr Thr Thr Ala Ser Gln Gln Ile Asn Leu Asn
 145 150 155 160
 Ser Thr Asp Thr Ala Pro Thr Val Ala Phe Asp Pro Ala Asn Pro Asp
 165 170 175
 Ser Tyr Asn Lys Lys Gly Thr Val Thr Val Phe Asp Ser Gln Gly Asn
 180 185 190
 Ala His Asn Met Asn Leu Phe Tyr Val Lys Asn Ala Thr Pro Ala Asn
 195 200 205
 Ser Trp Lys Val Tyr Ser Gln Asp Gly Ser Val Ala Gly Asp Ala Ala
 210 215 220
 Lys Leu Ala Thr Thr Leu Thr Phe Asn Ala Ser Gly Val Leu Thr Gly
 225 230 235 240
 Gly Asp Asp Ile Lys Ile Thr Thr Gly Thr Val Pro Gly Ala Thr Pro
 245 250 255
 Ala Thr Phe Asp Met Ser Phe Ala Asn Ser Met Gln Gln Asn Thr Gly
 260 265 270
 Ala Asn Asn Ile Val Ala Thr Ser Gln Asn Gly Tyr Lys Pro Gly Asp
 275 280 285
 Leu Val Ser Tyr Gln Ile Asn Asp Asp Gly Thr Val Val Gly Asn Tyr
 290 295 300
 Ser Asn Glu Gln Thr Gln Val Leu Gly Gln Ile Val Leu Ala Asn Phe
 305 310 315 320
 Ala Asn Asn Glu Gly Leu Lys Ser Glu Gly Asp Asn Val Trp Ser Ala
 325 330 335
 Thr Gln Ser Ser Gly Val Ala Leu Leu Gly Thr Ala Gly Ser Gly Asn
 340 345 350
 Phe Gly Thr Leu Thr Asn Gly Ala Leu Glu Ala Ser Asn Val Asp Leu
 355 360 365
 Ser Lys Glu Leu Val Asn Met Ile Val Ala Gln Arg Asn Tyr Gln Ser
 370 375 380
 Asn Ala Gln Thr Ile Lys Thr Gln Asp Gln Ile Leu Asn Thr Leu Val
 385 390 395 400
 Asn Leu Arg

<210> 8598
 <211> 90
 <212> PRT
 <213> Enterobacter cloacae

<400> 8598
 Glu Ala Gln Ser Val Gly Cys Leu Cys Phe Ile Arg Lys His Ser Ala
 1 5 10 15
 Ile Ile Arg Gly Ile Ala Trp Glu Asn Ser Pro Glu Asn Asn Pro Tyr
 20 25 30
 Thr Gly Lys Tyr Cys Asn Pro Gln Pro Ala Asn Cys Leu Lys Asp Gln
 35 40 45
 Tyr Val Leu Arg His Cys Cys Val Asp Asp Arg Ser Asp Lys Ile Gly
 50 55 60
 His Ser Val Asp Ile Leu Thr Lys Pro Gly Phe Asn Ala Glu Asn Gly
 65 70 75 80
 Phe Ile Ile Pro Leu Leu Ala Gly Leu
 85 90

<210> 8599
 <211> 323
 <212> PRT
 <213> Enterobacter cloacae

<400> 8599
 Arg Tyr Leu Glu Ser Pro Thr Met Lys Thr Glu Thr Pro Ala Val Lys

```
<210> 8600
<211> 406
<212> PRT
<213> Enterobacter cloacae
```

His 1	Tyr	Leu	His	Asn 5	Phe	Met	Arg	Thr	Arg 10	Thr	Glu	Asn	Leu	Thr 15	Asp
Val	Val	Ala	Pro 20	Lys	Ala	Asn	Trp	Ser 25	Leu	Ala	Leu	Gly	Ala 30	Gly	Leu
Leu	Gly	Ile 35	Gly	Gln	Asn	Gly	Leu 40	Leu	Val	Met	Leu	Pro 45	Gln	Leu	Val
Ser	Leu 50	Thr	Gly	Leu	Ser	Leu 55	Ser	Val	Trp	Ala	Gly 60	Leu	Leu	Met	Phe
Gly 65	Ser	Met	Leu	Phe 70	Leu	Pro	Ala	Ser	Pro 75	Trp	Trp	Gly	Arg	Gln 80	Ser
Glu	Arg	His	Gly 85	Cys	Lys	Ile	Val	Met 90	Leu	Ala	Ser	Leu	Gly 95	Gly	Tyr
Leu	Ala	Ser	Phe	Val	Val	Met	Ala	Leu	Val	Val	Trp	Ala	Met	Ala	Asn

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<210> 8601
<211> 402
<212> PRT
<213> Enterobacter cloacae
```

Pro 1	Ser	Ile	Pro	Ile 5	Pro	Ala	Cys	Trp	Thr 10	Ala	Thr	Thr	Thr	Tyr 15	Cys
Arg	Glu	Arg	Leu 20	Leu	Arg	Val	Arg	Leu 25	Ser	Gly	Ala	Ser	Thr 30	Ala	Val
Thr	Ala	Ser 35	Ala	Val	Met	Arg	Trp 40	Gln	Ile	Ser	Leu	Phe 45	Leu	Val	Arg
Leu	Gln 50	Asp	Ile	Arg	Arg	Leu 55	Cys	Val	Arg	Lys	His 60	Gly	Lys	Ala	Pro
Val 65	Ser	Pro	Ala	Ala 70	Arg	Cys	Leu	Pro	Gly	Leu 75	His	Leu	Arg	Thr 80	His
Ala	Met	Pro	Asp 85	Ser	His	Arg	Val	Tyr	Ser 90	Tyr	Ser	Ala	Val	Leu 95	Met
Gly	Ser	Pro	Ile 100	Leu	Leu	Lys	Leu	Phe 105	Ser	His	Asp	Glu	Ala	Leu	Ala
Ser	Arg	Val	Phe	Arg	Leu	Ile	Lys	Gln	Tyr	Glu	Asp	Leu	Leu	Thr	Val

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<210> 8602
<211> 338
<212> PRT
<213> Enterobacter cloacae
```

<400> 8602															
His	Ser	Ala	Met	Lys	Lys	Lys	Gly	Leu	Ile	Ile	Ala	Asp	Asp	Gly	Arg
1				5					10					15	
Phe	Ile	Lys	Pro	Cys	Lys	Glu	Arg	Arg	Phe	Val	Ser	Leu	Leu	Ser	Gly
			20					25					30		
Asp	Leu	Tyr	Lys	Thr	Leu	Tyr	Ser	Val	Trp	Val	Leu	Ile	Ile	Arg	Arg
		35					40					45			
Gln	Phe	Met	Ser	Ile	Met	Leu	Thr	Gly	Thr	Ala	Arg	Glu	Arg	Arg	His
	50					55					60				
Ala	Ser	Thr	Met	Asn	Ile	Asp	Arg	Leu	Ser	Thr	Leu	Asp	Met	Leu	Asn
65				70						75				80	
Val	Ile	His	Gln	Asp	Asp	Ala	Gln	Ile	Thr	Ser	Ala	Leu	Thr	Pro	His
			85						90					95	
Leu	Ser	Met	Leu	Ala	Arg	Val	Val	Asp	Asn	Ala	Ala	Ala	Thr	Leu	Ser
			100					105					110		
His	Gly	Gly	Arg	Leu	Val	Leu	Thr	Gly	Ala	Gly	Ala	Ser	Gly	Arg	Met
		115					120					125			
Ala	Glu	Gln	Ala	Ala	Glu	Ala	Phe	Ala	Pro	Gly	Lys	His	Pro	Val	Ile

130	135	140
Ala Met Thr Ala Gly Asp	Asn Ala Gly Ser Tyr	Ala Ser Gly Val Ala
145	150	155
Asp Leu Gln Thr Ile Glu Phe Gly Glu His	Asp Met Met Leu Ala Leu	
	165	170
Ser Val Ser Gly Lys Thr Pro Trp Val Trp Gly Ala Met Arg His Ala		
	180	185
Trp Ser Leu Gly Ser Thr Val Ala Leu Ile Thr Glu Asp Ala Gln Ser		
	195	200
Glu Ala Ala Gln Leu Ala Ser Met Val Ile Ala Pro Asp Leu Gly Ala		
	210	215
Asp Val Val Ala Gly Tyr Thr Asn Ala Lys Ala Gly Ile Ala Gln Ser		
225	230	235
Met Ile Leu His Met Ile Thr Thr Gly Leu Ala Val Arg Thr Gly Arg		
	245	250
Val Tyr Ser Asn Leu Arg Val Asp Leu Glu Ala Ser Asn Thr Arg Trp		
	260	265
Ala Glu Arg Gln Ile Ala Ile Val Met Glu Ala Gly Gly Cys Ser Arg		
	275	280
Ala Gln Ala Lys Ala Ala Leu Glu Ser Cys Asn His Gln Cys Lys Thr		
	290	295
Ala Val Leu Met Val Leu Thr Gly Leu Asn Ala Trp Lys Ala His Glu		
305	310	315
Leu Leu Ala Gln Asn Asn Gly Phe Val Arg Leu Ala Leu Gln Glu Ala		
	325	330
Pro		

<210> 8603

<211> 502

<212> PRT

<213> Enterobacter cloacae

<400> 8603

Pro Ile Ser Val Ala Val Cys Asp Pro Glu Leu Trp Tyr Ser Val Phe	
1	5
Cys Leu Tyr Cys Pro Val Lys Arg Met Gln Glu Asn Arg Ser Val Thr	
	20
Val Pro Ala Pro Glu Arg Val Glu Lys Ser Thr Ala Ala Val Gln Ala	
	35
Leu Leu Arg Gln Leu Leu Glu Met Tyr Asp Ala Lys Thr Leu Ala Asn	
	50
Gln Leu Val Ala His Gly Glu Ser His Trp Ser Pro Ala Ile Leu Lys	
65	70
Arg Leu Leu Ile Ser Asp Arg Ala Gly His Arg Leu Ser Asp Gly Glu	
	85
Phe Arg Tyr Leu Arg Asn Leu Leu Pro Arg Pro Pro Ala Ala His Pro	
	100
Asn Tyr Ala Phe Arg Phe Ile Asp Leu Phe Ala Gly Ile Gly Gly Ile	
	115
Arg His Gly Phe Glu Ala Ile Gly Gly Gln Cys Val Phe Thr Ser Glu	
	130
Trp Asn Lys His Ala Val Arg Thr Tyr Lys Ala Asn Trp Tyr Cys Asp	
145	150
Pro Asp Ala His Gln Phe Asn Ala Asp Ile Arg Asp Val Thr Leu Ser	
	165
His Lys Thr Gly Val Ser Asp Glu Glu Ala Ala Glu His Ile Arg Asn	
	180
Thr Ile Pro Ala His Asp Val Leu Leu Ala Gly Phe Pro Cys Gln Pro	
	195
Phe Ser Leu Ala Gly Val Ser Lys Lys Asn Ala Leu Gly Arg Ala His	

210	215	220
Gly Phe Ala Cys Asp Thr	Gln Gly Thr Leu Phe Phe Asp Val Ala Arg	
225	230	235
Ile Ile Asp Ala Arg Pro	Ala Ile Phe Val Leu Glu Asn Val Lys	
	245	250
Asn Leu Lys Ser His Asp	Gly Gly Lys Thr Phe Arg Ile Ile Met Gln	
	260	265
Thr Leu Asp Glu Leu Gly Tyr	Asp Val Ala Asp Ala Glu Asp Met Gly	
	275	280
Pro Asp Asp Pro Lys Ile	Ile Asp Gly Lys His Phe Leu Pro Gln His	
	290	295
Arg Glu Arg Ile Val Leu	Val Gly Phe Arg Arg Asp Leu Asn Leu Lys	
305	310	315
Gly Asp Phe Thr Leu Arg	Asp Leu Pro Ser Leu Tyr Pro Ala Arg Arg	
	325	330
Pro Thr Val Ala Asp Leu	Leu Glu Pro Ala Val Asp Ala Lys Phe Ile	
	340	345
Leu Thr Pro Val Leu Trp	Lys Tyr Leu Tyr Arg Tyr Ala Lys Lys His	
	355	360
Gln Ala Lys Gly Asn Gly	Phe Gly Phe Gly Met Val Asn Pro Leu Asn	
	370	375
Pro Asp Ser Val Thr Arg	Thr Leu Ser Ala Arg Tyr Tyr Lys Asp Gly	
385	390	395
Ala Glu Ile Leu Ile Asp	Arg Gly Trp Asp Lys Ala Leu Gly Glu Lys	
	405	410
Asp Phe Asp Asp Pro Gln	Asn Gln Gln His Arg Pro Arg Arg Leu Thr	
	420	425
Pro Arg Glu Cys Ala Arg	Leu Met Gly Phe Glu Thr Pro Gln Gly Tyr	
	435	440
Ser Phe Arg Ile Pro Val	Ser Asp Thr Gln Ala Tyr Arg Gln Phe Gly	
	450	455
Asn Ser Val Val Val Pro	Ala Phe Ala Ala Val Ala Lys Leu Leu Ala	
465	470	475
Ser Arg Ile Ser Lys Ala	Val Gln Leu Arg Gln Ser Glu Ala Val Asn	
	485	490
Gly Gly Arg Ser Gln		495
	500	

<210> 8604

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 8604

Val Leu Phe His Thr Ile His Leu Ile Ser Lys Lys Arg Arg Ile Glu	
1	5
Ile Leu Ala Gly Ser Ser Leu Leu Thr Leu Leu Asp Asp Ile Ala Thr	
	20
Leu Leu Asp Asp Ile Ser Val Met Gly Lys Leu Ala Ala Lys Lys Thr	
	35
Ala Gly Val Leu Gly Asp Asp Leu Ser Leu Asn Ala Gln Gln Val Ser	
	50
Gly Val Arg Ala Asn Arg Glu Leu Pro Val Val Trp Gly Val Ala Lys	
65	70
Gly Ser Phe Ile Asn Lys Val Ile Leu Val Pro Leu Ala Leu Leu Ile	
	85
Ser Ala Phe Ile Pro Trp Ala Ile Thr Pro Leu Leu Met Ile Gly Gly	
	100
Ala Phe Leu Cys Phe Glu Gly Ala Glu Lys Val Leu His Met Phe Ala	
	115
Ala Arg Lys Glu Lys Asp Thr Pro Glu Met Arg Gln Gln Arg Leu Glu	
	120
	125

130	135	140
Ala Leu Ala Ala Gln Asp	Pro Lys Thr Phe Glu Arg Asp Lys Val Lys	
145	150	155
Gly Ala Ile Arg Thr Asp	Phe Ile Leu Ser Ala Glu Ile Val Ala Ile	160
	165	170
Thr Leu Gly Ile Val Ser	Glu Ala Pro Leu Met Asn Gln Val Leu Ile	175
	180	185
Leu Ser Gly Ile Ala Ile	Leu Val Thr Ile Gly Val Tyr Gly Leu Val	190
	195	200
Gly Leu Ile Val Lys Leu	Asp Asp Ile Gly Phe Trp Leu Glu Lys Lys	205
	210	215
Ser Ser Ala Ile Ala Arg	Gly Ile Gly Lys Ser Leu Leu Val Val Ala	220
225	230	235
Pro Trp Leu Met Lys Thr	Leu Ser Val Val Gly Thr Leu Ala Met Phe	240
	245	250
Leu Val Gly Gly Gly Ile	Ile Val His Gly Val Ala Ser Leu His His	255
	260	265
Met Ile Glu His Phe Ala	Ser Gly Gln Gly Ala Val Val Ala Ala Ile	270
	275	280
Leu Pro Thr Leu Leu Asn	Leu Val Leu Gly Phe Ile Val Gly Leu Ile	285
	290	295
Val Val Ala Val Val Lys	Leu Val Glu Lys Val Arg Gly Lys Ser His	300
305	310	315
		320

<210> 8605

<211> 336

<212> PRT

<213> Enterobacter cloacae

<400> 8605

Phe Ser Tyr Leu Ser Arg Leu Ala Gln Glu Gly Leu Gln Phe Lys Asn	
1 5 10 15	
Leu Arg Pro Ile Ile Lys Asn Ala Leu Trp Gly Lys Ile Pro Arg Lys	
20 25 30	
Asn Arg Val Glu Asn Asp Val Ala Ser Leu Ile Tyr Ser Phe Ala Gln	
35 40 45	
Leu Glu Ala Phe Thr Ala Val Ala Glu His Gly Ser Leu Met Lys Ala	
50 55 60	
Ala Ser Lys Leu Gly Lys Asp Arg Thr Thr Leu Arg Asp Leu Ile Asp	
65 70 75 80	
Phe Leu Glu Asp Gly Leu Gly Tyr Ala Leu Phe Leu Arg Glu Gly Arg	
85 90 95	
Ser Leu Arg Leu Thr Pro Glu Gly Glu Gln Leu Gln Arg Gln Ala His	
100 105 110	
Leu Leu Met Arg Gln Val Lys Ala Phe Glu Ala Phe Ala Arg Thr Val	
115 120 125	
Pro Asp Ser Ala Thr Gln Asp Ile Ala Leu Val Tyr Asp Pro Phe Thr	
130 135 140	
Pro Arg Ala Phe Leu Gln Ala Leu Ile Ala Thr Leu Ala Thr Lys Lys	
145 150 155 160	
Thr Arg Leu Ser Leu Thr Ser Ala Ser Arg Asp Glu Ala Glu Ala Met	
165 170 175	
Leu Ala Asn Gly Gln Ala Asp Leu Gly Ile Cys Gln Ala Arg Asn Arg	
180 185 190	
Ser Val Gly Asn Glu Met Glu Trp Arg Ala Leu Gly Ala Ile Glu Met	
195 200 205	
Asp Phe Tyr Ala Ala Thr Ala Leu Phe Ala Glu Val Ala Ser Pro Val	
210 215 220	
Ser Leu Leu Asp Leu Ser Leu Val Pro Gln Val Val Met His Ala Ala	

225					230					235				240
Ser	Asp	Glu	Pro	Val	Ala	Arg	Arg	Leu	Gln	Ile	Ser	Gly	His	Thr
				245					250					255
Phe	Thr	Asn	Glu	Leu	Glu	Met	Leu	Arg	Gly	Leu	Leu	Glu	Gln	Gly
			260					265					270	
Gly	Trp	Gly	Phe	Leu	Pro	Thr	His	Leu	His	Ala	Thr	Gln	Trp	Lys
		275					280					285		Asn
Val	Lys	Arg	Leu	Pro	Thr	Glu	Val	Gly	Ser	Gln	Gly	Ile	Ser	Gln
	290					295				300				Thr
Met	Val	Thr	Ile	Trp	Lys	Pro	Gly	Ser	Asp	Lys	Arg	Gly	Leu	Ile
305					310					315				Asn
Asp	Thr	Leu	Ser	Gln	Leu	Pro	Ala	Leu	Trp	Lys	Arg	Ser	Ala	Leu
				325					330					335

<210> 8606

<211> 184

<212> PRT

<213> Enterobacter cloacae

<400> 8606

Leu	Asn	Cys	Trp	Pro	His	Val	Ser	Ala	Arg	Pro	Phe	Ser	Phe	Val	Arg
1				5					10					15	
Val	Arg	Pro	Ser	Met	Ala	Asp	Val	His	Asn	Lys	Ala	Thr	Arg	Ser	Lys
			20					25					30		
Asn	Met	Arg	Ala	Ile	Gly	Thr	Arg	Asp	Thr	Ala	Ile	Glu	Lys	Arg	Ile
		35					40					45			
Ala	Gly	Leu	Leu	Thr	Ala	Val	Gly	Phe	Glu	Phe	Arg	Val	Gln	Asp	Ala
	50					55					60				
Thr	Leu	Ala	Gly	Arg	Pro	Asp	Phe	Val	Ile	Asp	Ala	Tyr	Gln	Cys	Ile
65					70					75					80
Ile	Phe	Thr	His	Gly	Cys	Phe	Trp	His	His	Asp	Cys	Tyr	Leu	Phe	
			85					90					95		
Lys	Val	Pro	Ala	Thr	Arg	Thr	Asp	Phe	Trp	Leu	Asp	Lys	Ile	Gly	Arg
			100					105					110		
Asn	Val	Glu	Arg	Asp	Lys	Arg	Asp	Val	Ser	Gln	Leu	Tyr	Ala	Gln	Gly
		115					120					125			
Trp	Arg	Val	Leu	Ile	Val	Trp	Glu	Cys	Ala	Leu	Arg	Gly	Arg	Met	Lys
	130					135					140				
Leu	Asn	Asp	Val	Glu	Leu	Thr	Glu	Arg	Leu	Glu	Glu	Trp	Ile	Cys	Gly
145					150					155					160
Gly	Gly	Gln	Ala	Ala	Gln	Ile	Asp	Thr	Gln	Gly	Ile	His	Pro	Ile	Thr
			165						170					175	
Val	Ser	Pro	Pro	His	Thr	Ser									
			180												

<210> 8607

<211> 394

<212> PRT

<213> Enterobacter cloacae

<400> 8607

Pro	Leu	Phe	Tyr	Arg	Cys	Pro	Asp	Phe	Phe	His	Ser	Pro	Asp	Leu	Ala
1				5					10					15	
Arg	Ser	Cys	Gly	Thr	Gly	Arg	Cys	Leu	Tyr	Leu	Gln	Pro	Ser	Val	Thr
			20					25					30		
Ile	Trp	Lys	Arg	Leu	Pro	Val	Arg	Trp	Thr	Asp	Ser	Phe	Ser	Ser	Ala
		35					40					45			
Ser	Ile	Lys	Cys	Cys	Phe	Phe	Ala	Thr	Ala	Gly	Met	Met	Arg	Trp	Asp
	50					55				60					
Thr	Pro	Leu	Ala	Phe	Gly	Ala	Leu	His	Asp	Ala	Val	Lys	Arg	Phe	Ala
65					70					75					80

Gln Leu Arg Thr Ser Pro Thr Trp Gln Ile Ala Val Asp Lys Arg Arg
 85 90 95
 Thr Leu Pro Ile Asn Gly Val Ser Asp Ala Phe Val Glu Lys Thr Thr
 100 105 110
 Leu Leu Asn Arg Asp Asp Glu Tyr Leu Asp Asn Glu Leu Ser Ala Ala
 115 120 125
 Leu Glu Val Gly Tyr Leu Leu Arg Leu Ala Ser Ser Pro Ser Arg Asn
 130 135 140
 Glu Glu Arg Val Ile Tyr Val Ser Arg Ala Gly Phe Phe Leu Glu Thr
 145 150 155 160
 Asp Thr Pro Gly Asn Ser Ser Asp Ile Val Gln Arg Tyr Tyr His Leu
 165 170 175
 Val Thr Gln Pro Trp Phe Thr Gln Gln Ser Glu Arg Glu Asn Arg Ala
 180 185 190
 Arg Ala Val Arg Trp Phe Ile Ser Pro Pro Ser Ser Phe Val Gly Lys
 195 200 205
 Lys Pro Leu Ile Thr Ala Ser Val Pro Val Tyr Tyr His His Val Trp
 210 215 220
 Tyr Gly Val Val Ala Met Asp Phe Thr Phe Ala Thr Leu Arg Arg Leu
 225 230 235 240
 Leu Val Glu Ala Val Gly Asp Asn Pro Glu Gly Glu Tyr Gln Leu Tyr
 245 250 255
 Asp Ser Arg Leu Thr Leu Leu Ala Thr Ser Glu Ser Pro Ala Val Asp
 260 265 270
 Val Asn His Phe Asp Ala Arg Glu Leu Ala Gln Ile Ala His Ala Ile
 275 280 285
 Glu Ser Asp Ser Glu Gly Gly Ile Arg Leu Gly Ser Arg Phe Val Ser
 290 295 300
 Trp Glu Arg Leu Asp His Phe Asp Gly Val Ile Leu Arg Val His Thr
 305 310 315 320
 Leu Asp Glu Gly Val Arg Gly Asp Phe Gly Ser Ile Ser Ile Val Leu
 325 330 335
 Ala Leu Leu Trp Ala Leu Phe Thr Ala Met Leu Leu Ile Ser Trp Leu
 340 345 350
 Val Ile Arg Arg Met Val Ser Asn Met Tyr Ser Met Gln Asn Ser Leu
 355 360 365
 Gln Trp Gln Ala Trp His Asp Pro Leu Thr Arg Leu His Asn Leu His
 370 375 380
 His Glu Ala Gly Ala Ile Arg Asn Tyr Asn
 385 390

<210> 8608

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 8608

Ile Ser Ser Tyr Pro Thr Met Leu Lys Asp Pro Val Ser Met Pro Val
 1 5 10 15
 Asn Phe Asp Leu Asn Asp Leu Tyr Ala Phe Arg Ala Leu Leu Glu Tyr
 20 25 30
 Gly Asn Phe Arg Leu Ala Ala Glu Ser Ile Cys Leu Ser Gln Ser Ala
 35 40 45
 Leu Ser Arg Arg Ile Glu Lys Leu Glu Ala Ala Leu Gly Thr Lys Leu
 50 55 60
 Phe Asp Arg Thr Thr Arg Arg Val Thr Leu Thr Leu Tyr Gly Gln Thr
 65 70 75 80
 Phe Ala Asp Arg Cys Gly Gln Leu Leu Ala Asp Val Glu Ser Met Leu
 85 90 95
 Ser Asp Ile Asp Lys Ala Ser Glu Glu Arg Thr Gly Leu Ile Thr Val
 100 105 110

Ala Thr Val Pro Ser Ala Ala Cys Tyr Phe Met Pro Asp Val Ile Arg
 115 120 125
 Arg Phe Gln Ser Arg Tyr Pro Arg Val Arg Ile Lys Leu Ile Asp Ser
 130 135 140
 Ser Ala Gly Asn Val Ile Glu Ala Val Thr Arg Gly Gln Ala Asp Phe
 145 150 155 160
 Gly Ile Cys Phe Ala Arg Ser Leu Gln Pro Asp Ile Glu Phe Val Pro
 165 170 175
 Leu Val Glu Asp Val Tyr Val Ala Ala Cys Arg Arg Asp Ser Pro Leu
 180 185 190
 Ala Lys Arg Lys Ser Leu Thr Trp Gln Ala Phe Tyr Gln Gln Asp Tyr
 195 200 205
 Ile Gly Leu Asp Lys Thr Ser Gly Asn Arg Asn Leu Leu Asp Gln Arg
 210 215 220
 Val Gly His Ile Arg Pro Glu Arg Pro Ser Ile Cys Glu Thr Arg His
 225 230 235 240
 Val Thr Thr Met Leu Gly Met Val Glu Ala Gly Ile Gly Ile Ala Ala
 245 250 255
 Val Pro Ala Met Ser Met Pro Arg Ala Glu His Ser Leu Leu Thr Ser
 260 265 270
 Val Pro Leu Thr Glu Pro Glu Val Arg Arg Thr Val Gly Leu Ile Arg
 275 280 285
 Arg Arg Gly Arg Ile Gln Ser Tyr Ile Ala Ala Glu Leu Glu Thr Leu
 290 295 300
 Ile Thr Glu Gln Tyr Arg Glu Val His
 305 310

<210> 8609

<211> 935

<212> PRT

<213> Enterobacter cloacae

<400> 8609

Phe Leu Lys Phe Gly Val Ser Ile Met Ser Thr Asn Glu Arg Ile Leu
 1 5 10 15
 Ser Pro Phe Thr Leu Pro Asn Gly Thr Glu Leu Lys Asn Arg Leu Leu
 20 25 30
 Met Ala Pro Met Thr Thr Cys Thr Gly Tyr Tyr Asp Gly Thr Val Thr
 35 40 45
 Ser Glu Leu Val Glu Tyr Tyr Arg Ala Arg Ala Gly Ser Ile Gly Thr
 50 55 60
 Ile Ile Val Glu Cys Cys Phe Val Asp Asp Leu Gly Leu Ala Phe Pro
 65 70 75 80
 Gly Ala Ile Gly Ile Asp Asn Asp Glu Lys Ile Ala Gly Leu Ala Lys
 85 90 95
 Ile Ala Asp Val Ile Lys Ser Lys Gly Ser Lys Ala Leu Leu Gln Ile
 100 105 110
 Tyr His Gly Gly Arg Met Val Asp Pro Lys Leu Ile Gly Gly Arg Thr
 115 120 125
 Pro Val Gly Pro Ser Ala Val Ala Ala Pro Arg Asp Gly Ala Ala Thr
 130 135 140
 Pro Val Ala Leu Thr Ala Glu Glu Val Glu Gly Met Ile Gly Lys Phe
 145 150 155 160
 Gly Glu Ala Val Arg Arg Ala Ile Gln Ala Gly Phe Asp Gly Val Glu
 165 170 175
 Ile His Gly Ala Asn Thr Tyr Leu Ile Gln Gln Phe Phe Ser Pro Asn
 180 185 190
 Ser Asn Gln Arg Asp Asp Glu Trp Gly Gly Ser Arg Glu Asn Arg Ala
 195 200 205
 Lys Phe Pro Leu Ala Val Leu Asp Ile Thr His Lys Met Val Arg Gln
 210 215 220

Tyr	Ala	Asp	Asp	Ala	Phe	Ile	Ile	Gly	Tyr	Arg	Phe	Ser	Pro	Glu	Glu
225					230					235					240
Leu	Glu	Val	Pro	Gly	Ile	Arg	Phe	Glu	Asp	Thr	Leu	Tyr	Leu	Leu	Glu
				245					250						255
Lys	Leu	Ala	Ala	Arg	Gly	Val	Asp	Tyr	Leu	His	Phe	Ser	Leu	Gly	Asp
			260					265						270	
Ala	Leu	Arg	Pro	Ser	Ile	Val	Asp	Thr	Gln	Asp	Pro	Thr	Pro	Leu	Ile
		275					280					285			
Glu	Lys	Tyr	Cys	Ala	Met	Arg	Ser	Asp	Thr	Leu	Ala	Gln	Val	Pro	Val
	290					295					300				
Met	Gly	Val	Gly	Gly	Val	Val	Asn	Ala	Thr	Asp	Val	Asn	Glu	Ala	Leu
305					310					315					320
Asp	His	Gly	Tyr	Asp	Leu	Ile	Ala	Val	Gly	Arg	Ala	Thr	Ile	Ala	Tyr
				325					330					335	
Pro	Asp	Trp	Thr	Asp	Arg	Ile	Ala	Ala	Gly	Glu	Ser	Leu	Glu	Leu	Phe
			340					345					350		
Met	Asp	Ser	Thr	Arg	Arg	Glu	Glu	Leu	Ser	Ile	Pro	Glu	Pro	Leu	Trp
	355						360					365			
Arg	Phe	Ser	Leu	Val	Glu	Ala	Met	Ile	Arg	Asp	Met	Ser	Met	Gly	Glu
	370					375					380				
Ser	Lys	Phe	Lys	Pro	Gly	Thr	Phe	Ile	Glu	Lys	Val	Gln	Asp	Asp	Ala
385					390					395					400
Asn	Glu	Leu	Val	Ile	Asn	Val	Ser	Leu	Glu	Thr	Asp	Arg	Ile	Ala	Asp
				405					410					415	
Ile	Glu	Leu	Ala	Ser	Gly	Pro	Ser	Glu	Asp	Val	Glu	Phe	Val	Thr	Ser
			420					425					430		
Phe	Glu	Glu	Ile	Arg	Ser	Arg	Ile	Leu	Asp	Ala	Asn	Thr	Pro	His	Val
	435						440					445			
Asp	Ala	Ile	Thr	Gly	Ala	Thr	Ser	Gln	Ser	Glu	Ala	Val	Lys	Lys	Ala
	450					455					460				
Val	Ser	Lys	Ala	Met	Leu	Lys	Ser	Ser	Lys	Ala	Leu	Ala	Ala	Glu	Glu
465					470					475					480
Gly	Ala	Asp	Pro	Asn	Glu	Thr	Lys	Ser	Val	Asp	Val	Val	Val	Val	Gly
				485					490					495	
Ser	Gly	Gly	Ala	Gly	Leu	Ala	Ala	Ala	Ile	Gln	Ala	His	Asp	Glu	Gly
			500					505					510		
Ala	Ser	Val	Leu	Ile	Val	Glu	Lys	Met	Pro	Thr	Ile	Gly	Gly	Asn	Thr
	515						520					525			
Ile	Lys	Ala	Ser	Ala	Gly	Met	Asn	Ala	Ala	Glu	Thr	Arg	Phe	Gln	Arg
	530					535					540				
Val	Lys	Gly	Ile	Gln	Asp	Ser	Lys	Glu	Leu	Phe	Tyr	Gln	Glu	Ser	Leu
545					550					555					560
Lys	Gly	Gly	Gly	Asn	Lys	Asn	Asn	Pro	Glu	Leu	Leu	Arg	Arg	Phe	Val
				565					570					575	
Glu	Asn	Ala	Pro	Gln	Ala	Ile	Glu	Trp	Leu	Ala	Thr	Arg	Gly	Ile	Met
			580					585					590		
Leu	Asn	Asp	Ile	Thr	Thr	Thr	Gly	Gly	Met	Ser	Ile	Asp	Arg	Thr	His
	595						600					605			
Arg	Pro	Lys	Asp	Gly	Ser	Ala	Val	Gly	Gly	Tyr	Leu	Ile	Ser	Gly	Leu
	610					615					620				
Val	Arg	Asn	Val	Asn	Lys	Arg	Asn	Ile	Glu	Val	Met	Leu	Asp	Thr	Ser
625					630					635					640
Val	Ser	Asp	Ile	Ile	Phe	Glu	Asn	Gly	Glu	Val	Thr	Gly	Val	Arg	Leu
				645					650					655	
Thr	Thr	Glu	Glu	Asn	Glu	Thr	Leu	Thr	Val	Ala	Thr	Lys	Ser	Val	Ile
			660					665					670		
Val	Ala	Thr	Gly	Gly	Phe	Ser	Ala	Asn	Ser	Glu	Met	Val	Val	Lys	Tyr
		675					680					685			
Arg	Pro	Asp	Leu	Ala	Gly	Phe	Val	Thr	Thr	Asn	His	Lys	Gly	Ala	Thr
	690					695					700				
Gly	Gly	Gly	Ile	Ala	Leu	Leu	Glu	Arg	Ile	Gly	Ala	Gly	Thr	Val	Asp

705					710					715				720
Met	Gly	Glu	Ile	Gln	Ile	His	Pro	Thr	Val	Glu	Gln	Lys	Thr	Ser
				725						730				735
Leu	Ile	Ser	Glu	Ser	Ile	Arg	Gly	Gly	Gly	Ala	Ile	Leu	Val	Asn
			740					745					750	Gln
Gln	Gly	Asn	Arg	Phe	Tyr	Asn	Glu	Met	Ser	Thr	Arg	Asp	Lys	Val
		755					760					765		Ser
Ala	Ser	Ile	Ile	Ala	Leu	Pro	Glu	Lys	Tyr	Ala	Tyr	Ile	Val	Phe
		770				775					780			Asp
Glu	His	Val	Arg	Val	Lys	Asn	Lys	Ala	Ala	Asp	Glu	Tyr	Ile	Ala
785					790					795				Lys
Gly	Phe	Val	Thr	Ser	Ala	Ser	Ser	Pro	Lys	Ala	Leu	Ala	Glu	Ala
				805					810					Leu
Gly	Met	Asp	His	His	Gln	Phe	Leu	Ala	Thr	Leu	Glu	Arg	Tyr	Asn
			820					825					830	Gly
Phe	Val	Glu	Lys	Gln	His	Asp	Asp	Asp	Phe	Gly	Arg	Thr	Thr	Ala
		835					840				845			Leu
Arg	Ala	Pro	Ile	Asn	Glu	Gly	Pro	Phe	Tyr	Ala	Ile	Gln	Ile	Ala
		850				855					860			Pro
Gly	Val	His	His	Thr	Met	Gly	Gly	Val	Thr	Ile	Asn	Thr	Asp	Thr
865					870					875				Cys
Val	Leu	Asp	Ser	Asn	His	Asn	Val	Leu	Pro	Gly	Ala	Phe	Ala	Ala
				885					890					Gly
Glu	Val	Val	Gly	Gly	Ile	His	Gly	Gly	Asn	Arg	Ile	Gly	Gly	Asn
			900				905						910	Ala
Val	Ala	Asp	Ile	Ile	Ile	Phe	Gly	Thr	Leu	Ala	Gly	His	Gln	Ala
		915					920					925		Ala
Met	Arg	Ser	Lys	Thr	Arg									
	930					935								

<210> 8610

<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 8610

Phe	Tyr	Leu	Leu	Lys	Ile	Leu	Ile	Arg	Met	Tyr	Tyr	Asn	Ser	Leu	Ser
1				5					10					15	
Phe	Glu	Gln	Gln	Asp	Gly	Met	Met	Glu	Leu	Ala	Gln	Trp	Gln	His	Arg
			20					25					30		
Tyr	Glu	Arg	Trp	Leu	Asp	Glu	Asn	His	Phe	Thr	Asp	Asp	Ala	Ala	His
		35					40					45			
Asp	Ile	Ala	His	Phe	Arg	Arg	Val	Trp	Met	Thr	Ala	Gln	Gly	Ile	Met
		50				55					60				
Ala	Asp	Glu	Asp	Ser	Asp	Pro	Leu	Val	Val	Leu	Thr	Ala	Cys	Tyr	Phe
65					70					75					80
His	Asp	Ile	Val	Ser	Leu	Pro	Lys	Asn	His	Pro	Glu	Arg	Ser	His	Ser
				85					90					95	
Ser	Arg	Leu	Ala	Ala	Arg	Lys	Thr	Arg	Glu	Ile	Leu	Ser	Arg	Asp	Phe
			100					105					110		
Pro	Asp	Phe	Pro	Pro	Asp	Arg	Tyr	Ala	Ala	Val	Glu	His	Ala	Ile	Glu
		115					120						125		
Ala	His	Ser	Phe	Ser	Ala	Gly	Ile	Ala	Pro	Gln	Ser	Leu	Glu	Ala	Lys
		130				135					140				
Ile	Val	Gln	Asp	Ala	Asp	Arg	Leu	Glu	Ala	Leu	Gly	Ala	Ile	Gly	Leu
145					150					155					160
Ala	Arg	Val	Phe	Ala	Val	Ser	Gly	Ala	Leu	Gly	Ala	Ala	Leu	Phe	Asp
				165					170					175	
Ala	Asp	Asp	Pro	Phe	Ala	Gly	Thr	Arg	Ala	Leu	Asp	Asp	Lys	Ala	Phe
			180					185					190		
Ala	Leu	Asp	His	Phe	Gln	Thr	Lys	Leu	Leu	Arg	Leu	Pro	Asp	Thr	Met

	195					200				205					
Gln	Thr	Ala	Arg	Gly	Arg	Lys	Leu	Ala	Arg	His	Asn	Ala	Asp	Phe	Leu
	210					215					220				
Ile	Gln	Phe	Met	Ala	Lys	Leu	Ser	Ala	Glu	Leu	Gln	Gly	Asp	Tyr	Leu
225					230					235					240
Gly	Thr	Asp	Ser	Gln	Ile	Leu	Thr	His	Phe	Arg	Arg	Ser	Val	Arg	Ser
				245					250					255	

<210> 8611

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 8611

Lys	Arg	Phe	Thr	Leu	Ile	Gln	Glu	Ala	Gly	Met	Val	Phe	Leu	Ile	Ser
1				5					10					15	
Asp	Glu	Val	Lys	Pro	Lys	Asn	Gly	Gly	Pro	Gly	Met	Ile	Val	Thr	Gly
		20					25					30			
Tyr	Ser	Ser	Gly	Met	Val	Glu	Cys	Arg	Trp	His	Asp	Gly	Tyr	Gly	Ile
		35				40						45			
Lys	Arg	Glu	Ala	Phe	Arg	Glu	Asp	Glu	Leu	Gln	Pro	Ala	Asn	Lys	Arg
	50					55					60				
Gln	Lys	Arg	Asp	Lys	Ala										
65					70										

<210> 8612

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 8612

Ser	His	Asn	Ala	Arg	Pro	Cys	Arg	Ala	Phe	Leu	Leu	Ala	Glu	Asp	Leu
1				5					10					15	
Ser	Tyr	Arg	Met	Val	Ser	Asp	Asn	Gln	Gly	Val	Cys	Val	Gln	His	Asp
		20					25					30			
Thr	Phe	Val	Val	Lys	Gln	Ser	Phe	Leu	Gln	Trp	Leu	His	Lys	Arg	Ser
		35				40						45			
Asn	Pro	Ser	Leu	Ile	Val	Asn	Leu	Cys	Phe	Ile	Val	Val	Leu	Ile	Phe
	50					55					60				
Ser	Thr	Leu	Leu	Thr	Trp	Arg	Glu	Val	Val	Val	Leu	Glu	Asp	Ala	Tyr
65					70					75					80
Ile	Ser	Ser	Pro	Ala											
				85											

<210> 8613

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 8613

Ala	Pro	Arg	Ser	Val	Leu	Leu	Val	Leu	Trp	Ile	Val	Glu	Ile	Phe	Phe
1				5					10					15	
Ala	Gln	Arg	Leu	Ile	Pro	Ala	Pro	Ile	Asp	Lys	Asn	Phe	Arg	Ala	Ile
		20					25					30			
Phe	Val	Ile	Ala	Arg	Arg	Gln	Arg	Thr	Arg	His	Ala	Val	Arg	Ile	Lys
		35				40						45			
Arg	Ile	Asp	His	Ala	Lys	Pro	Lys	Ala	Ile	Ala	Phe	Gly	Leu	Met	Leu
	50					55					60				
Phe	Gly	Ile	Ala	Ile	Glu	Val	Phe	Pro	Gln	His	Arg	Gly	Gln	Asn	Glu

65					70					75					80
Phe	Arg	Ile	Asp	Gly	Gly	Leu	Gln	Gln	Ile	Gly	His	Arg	Arg	Ala	Ala
				85					90					95	
Arg	Arg	Ile	Gln	Arg	Arg	Gln	Ile	Thr	Gln	Arg	Lys	Ile	Ala	Phe	Gln
			100					105					110		
Val	Glu	Ile	Ala	Ala	Glu	Ala	His	Gln	His	Asn	Thr	Phe	Ala	Val	Leu
		115					120					125			
Trp	Gln	Glu	Val	Phe	Ala	Val	Asp	Asn	Phe	Arg	Ile	Val	Arg	Pro	His
	130					135					140				
Ile	Leu	Cys	Ile	Arg	His	Val	Val	Thr	Gln	Phe	Ile	Gln	Arg	Leu	His
145					150					155				160	
Asp	Asn	Ala	Glu	Gly	Phe	Ala	Ala	Val	Met	Thr	Leu				
				165					170						

<210> 8614

<211> 216

<212> PRT

<213> Enterobacter cloacae

<400> 8614

Ile	Leu	Asp	Val	Leu	Gln	His	Lys	Asn	Cys	Arg	Ala	Ala	Gly	Ile	Asn
1				5				10					15		
Asn	Pro	Gly	Asn	Val	Lys	Lys	Gln	Cys	Ala	Leu	Arg	Ile	Thr	Gly	Lys
			20				25						30		
Ala	Val	Cys	Ala	Ser	Gln	Arg	Val	Leu	Phe	Arg	His	Ala	Ser	Gln	Arg
		35					40					45			
Glu	Arg	Leu	Thr	Arg	Lys	Ala	Cys	Gln	Gln	His	Ile	Val	Arg	Arg	Asn
		50				55					60				
Gly	Ile	Ala	Asn	Val	Phe	Gly	Gly	Leu	Phe	Ile	Ala	Asp	Ala	Ser	Phe
65					70				75					80	
Val	Ala	Gln	Arg	Asp	Ile	Thr	Asn	Ile	Arg	Val	Glu	Leu	Val	Arg	Val
				85				90					95		
Gly	Val	Ala	Ile	Pro	Val	Gly	Phe	Ile	Gly	Thr	Asp	Gly	Met	Phe	Ile
			100				105					110			
Pro	Phe	Thr	Gly	Glu	Asp	Thr	Leu	Pro	Ala	Asn	Ser	Phe	Lys	Ala	Met
		115					120					125			
Ala	Asn	Ala	Ala	Asp	Thr	Gly	Lys	Glu	Ile	Asp	Lys	Ala	Lys	Gly	Ile
	130					135					140				
Ile	Arg	Met	Arg	Ser	Arg	Arg	Thr	Arg	Gln	Gln	Val	Ala	Gln	Ile	Thr
145					150				155					160	
Glu	Leu	Ala	Val	Ala	Gln	Ala	Val	Pro	Cys	Pro	Val	Ala	Tyr	Gln	Gln
				165				170						175	
Pro	Leu	Glu	Tyr	Arg	Arg	Ala	Pro	Val	Thr	Leu	Ala	Met	Gly	His	Gln
			180					185					190		
Leu	Val	Cys	Gln	Arg	Phe	Ser	Ile	Ile	His	Phe	Gln	Gln	Leu	Thr	Gln
		195					200					205			
Glu	Cys	Leu	His	Gly	Cys	Arg									
	210					215									

<210> 8615

<211> 393

<212> PRT

<213> Enterobacter cloacae

<400> 8615

Arg	Glu	Tyr	Ile	Met	Lys	Arg	Lys	Val	Leu	Ala	Ile	Leu	Val	Pro	Ala
1				5				10						15	
Leu	Leu	Met	Ala	Gly	Ala	Ala	Asn	Ala	Glu	Met	Tyr	Asn	Lys	Asn	
			20				25					30			
Gly	Asn	Lys	Val	Asp	Leu	Tyr	Gly	Lys	Val	Asp	Ala	Arg	His	Thr	Phe
		35					40					45			

Ser Asp Asn Pro Gly Asp Asp Gly Asp Glu Thr Tyr Val Gln Val Gly
 50 55 60
 Phe Lys Gly Glu Thr Gln Ile Thr Asn Asp Leu Thr Gly Tyr Gly Gln
 65 70 75 80
 Trp Glu Tyr Lys Thr Tyr Ala Asn Asp Thr Glu Gly Ala Gly Asp Thr
 85 90 95
 Ser Phe Asn Arg Leu Ala Phe Ala Gly Leu Lys Tyr Gly Glu Tyr Gly
 100 105 110
 Ser Phe Asp Tyr Gly Arg Asn Tyr Gly Val Val Tyr Asp Val Glu Ala
 115 120 125
 Trp Thr Asp Met Leu Pro Val Phe Gly Gly Asp Ser Tyr Thr Trp Thr
 130 135 140
 Asp Asn Tyr Met Val Gly Arg Thr Asn Gly Val Ala Thr Tyr Arg Asn
 145 150 155 160
 Asn Asp Phe Phe Gly Leu Val Asp Gly Leu Asn Phe Ala Leu Gln Tyr
 165 170 175
 Gln Gly Ala Asn Glu Gly Ala Asn Ala Asn Glu Asn Gln Glu Gly Thr
 180 185 190
 Lys Asn Gly His Asp Asp Val Arg Phe Gln Asn Gly Asp Gly Phe Gly
 195 200 205
 Met Ser Thr Thr Tyr Asp Phe Asp Phe Gly Leu Thr Leu Gly Ala Ala
 210 215 220
 Tyr Ser Ser Ser Asp Arg Thr Asn Asp Gln Val Ala Tyr Gly Ala Gly
 225 230 235 240
 Thr Tyr Asn Arg Phe Ser Lys Tyr Ala Gly Gly Glu Arg Ala Glu Ala
 245 250 255
 Trp Thr Ile Gly Ala Lys Tyr Asp Ala Asn Asp Val Tyr Leu Ala Met
 260 265 270
 Met Tyr Ala Glu Thr Arg Asn Met Thr Pro Tyr Gly Asn Gly Gly Ile
 275 280 285
 Ala Asn Lys Thr Gln Asn Phe Glu Ala Val Ala Gln Tyr Gln Phe Asp
 290 295 300
 Phe Gly Leu Arg Pro Ser Leu Ala Trp Val Tyr Ser Lys Gly Ile Asp
 305 310 315 320
 Leu Gly Gly Asn Asp Tyr His Pro Gly Asn Gly Tyr Asp Tyr Val Asp
 325 330 335
 Gln Asp Leu Val Asn Tyr Ile Asp Val Gly Met Thr Tyr Ser Phe Asn
 340 345 350
 Lys Asn Phe Ser Thr Tyr Val Asp Tyr Lys Ile Asn Leu Leu Asp Glu
 355 360 365
 Asp Asp Ala Phe Tyr Asn Asp Asn Gly Ile Ala Thr Asp Asp Ile Val
 370 375 380
 Gly Ile Gly Met Ile Tyr Gln Phe
 385 390

<210> 8616

<211> 548

<212> PRT

<213> Enterobacter cloacae

<400> 8616

Pro Phe Leu Phe His Arg Gly Val Leu Met Ser Asp Leu Gln Pro Phe
 1 5 10 15
 Pro Pro Thr Arg Lys Arg Pro Met Lys Leu Asn Thr Leu Val Thr Leu
 20 25 30
 Met Val Cys Ala Ile Ile Gly Ser Val Leu Leu Val Val Phe Ala Leu
 35 40 45
 Tyr Ser Val Gln Ile Thr Arg Ala Thr Arg Asp Asp Val Lys Asp Thr
 50 55 60
 Ala Leu Gly Ile Ala Arg Thr Leu Ala Asp Ser Pro Glu Ile Lys Arg
 65 70 75 80

Gly Leu Met Glu Ser Pro Gln Ala Gly Ile Ile Gln Pro Ile Ala Glu
 85 90 95
 Ala Val Thr Lys Arg Asn Asp Leu Leu Phe Thr Val Val Thr Asp Leu
 100 105 110
 Arg Gly Ile Arg Tyr Ser His Pro Asn Glu Ala Leu Leu Gly Leu His
 115 120 125
 Phe Ile Gly Asp Asp Leu Thr Pro Ala Leu Glu Gly Lys Glu Asn Val
 130 135 140
 Ser Val Asn Arg Gly Ala Leu Ala Glu Ala Leu Arg Val Phe Thr Pro
 145 150 155 160
 Val Tyr Asp Asp Gln His Asp Gln Ile Gly Val Val Val Gly Ile
 165 170 175
 Ser Leu Asn Lys Val Glu Asp Gln Ile Ala Arg Gly Arg Leu Asn Ala
 180 185 190
 Val Trp Thr Ile Leu Phe Ser Val Leu Met Ser Ser Val Ala Ile Trp
 195 200 205
 Gly Leu Val Arg Val Leu Lys Arg Ile Leu Phe Gly Leu Glu Pro Tyr
 210 215 220
 Glu Ile Ser Ala Leu Phe Glu Gln Arg Gln Ala Met Leu Gln Ser Leu
 225 230 235 240
 Arg Glu Gly Val Met Ala Val Asp Met His Gly Arg Val Thr Met Ile
 245 250 255
 Asn His Thr Ala Arg Glu Ile Leu Leu Ser Ser Gly Glu His Ser
 260 265 270
 Glu Ser Ser Gly Glu Pro Leu Leu Ala Ser Leu Arg Glu Val Ala Lys
 275 280 285
 Thr Gly Ile Ala Arg Gln Asp Gln Glu Ile Gly Cys Asn Gly Arg Leu
 290 295 300
 Leu Leu Cys Asn Met Val Pro Val Lys Ser Gln Asn Gln Val Ile Gly
 305 310 315 320
 Ala Ile Ser Thr Phe Arg Asp Lys Thr Glu Ile Ser Gln Leu Met Gln
 325 330 335
 Arg Ile Asp Gly Met Val Asn Tyr Val Asp Ala Leu Arg Ser His Thr
 340 345 350
 His Glu Phe Met Asn Lys Leu His Val Ile Leu Gly Leu Leu His Met
 355 360 365
 Lys Arg Tyr Asp Lys Leu Glu Tyr Ile Ile Gln Thr Ala Gln Asn
 370 375 380
 Tyr Gln Thr Asp Ile Gly Ala Ile Gln Arg Lys Val Lys Ser Pro Val
 385 390 395 400
 Ile Ala Gly Phe Leu Leu Gly Lys Ile Asn Arg Ala Lys Glu Ala Gly
 405 410 415
 Val Thr Leu Thr Leu Ala Glu Glu Ser Gln Leu Pro Asp Thr Ala Asn
 420 425 430
 Glu Glu Gln Val Ala Val Leu Ile Thr Val Leu Gly Asn Leu Ile Glu
 435 440 445
 Asn Ala Leu Asp Ala Met Glu Gly Gln Pro Glu Gly Glu Ile Gly Leu
 450 455 460
 Leu Leu His Tyr Gln Asn Gly Trp Leu Ser Gly Glu Val Ser Asp Asp
 465 470 475 480
 Gly Pro Gly Ile Asp Pro Glu Arg Leu Glu Ala Ile Phe Thr Lys Gly
 485 490 495
 Tyr Ser Thr Lys Gly Glu Asn Arg Gly Val Gly Leu Phe Leu Ala Arg
 500 505 510
 Gln Gln Ile Gln Asn Leu Gly Gly Asp Ile Thr Val Glu Ser Glu Pro
 515 520 525
 Gly Val Phe Thr Gln Phe Phe Val Gln Ile Pro Trp Asp Ser Glu Arg
 530 535 540
 Asn Ile Ala
 545

<210> 8617
 <211> 485
 <212> PRT
 <213> Enterobacter cloacae

<400> 8617

Val	Ile	Val	Glu	Tyr	Val	Asn	Thr	Gly	Gln	Arg	Ile	Val	Ile	Asn	Ala
1				5					10					15	
Pro	His	Ala	Ser	Val	Tyr	Ala	Leu	Phe	Ala	Leu	Ile	Asn	Phe	His	Phe
			20					25					30		
Leu	Ile	Gln	Phe	Ser	Glu	Thr	Asp	Glu	His	Asn	Val	Ala	Ile	Lys	Leu
		35					40					45			
Glu	Ile	Ile	Met	Val	Ser	Ser	Thr	Ser	Pro	Ala	Thr	Val	Arg	Ala	Lys
	50					55					60				
Ala	Gly	Ala	Ile	Phe	Arg	Val	Thr	Ser	Gly	Asn	Phe	Leu	Glu	Gln	Phe
65					70					75				80	
Asp	Phe	Phe	Leu	Phe	Gly	Phe	Tyr	Ala	Thr	Tyr	Ile	Ala	His	Thr	Phe
				85					90					95	
Phe	Pro	Ala	Ser	Ser	Glu	Phe	Ala	Ser	Leu	Met	Met	Thr	Phe	Ala	Val
			100					105					110		
Phe	Gly	Ala	Gly	Phe	Leu	Met	Arg	Pro	Ile	Gly	Ala	Ile	Val	Leu	Gly
		115					120					125			
Ala	Tyr	Ile	Asp	Lys	Val	Gly	Arg	Arg	Lys	Gly	Leu	Ile	Val	Thr	Leu
	130					135					140				
Ser	Ile	Met	Ala	Ala	Gly	Thr	Phe	Leu	Ile	Val	Leu	Ile	Pro	Ser	Tyr
145					150					155				160	
Gln	Ser	Ile	Gly	Leu	Trp	Ala	Pro	Leu	Leu	Val	Leu	Thr	Gly	Arg	Leu
				165				170						175	
Leu	Gln	Gly	Phe	Ser	Ala	Gly	Ala	Glu	Leu	Gly	Gly	Val	Ser	Val	Tyr
			180					185					190		
Leu	Ala	Glu	Ile	Ala	Thr	Pro	Gly	Arg	Lys	Gly	Phe	Tyr	Thr	Ser	Trp
		195					200					205			
Gln	Ser	Gly	Ser	Gln	Gln	Val	Ala	Ile	Met	Ile	Ala	Ala	Ala	Met	Gly
	210					215					220				
Phe	Ala	Leu	Asn	Val	Val	Leu	Glu	Glu	Ser	Ala	Ile	Arg	Glu	Trp	Gly
225					230					235				240	
Trp	Arg	Ile	Pro	Phe	Leu	Phe	Gly	Cys	Leu	Ile	Val	Pro	Phe	Ile	Phe
				245					250					255	
Phe	Leu	Arg	Arg	Lys	Leu	Glu	Glu	Thr	Glu	Glu	Phe	Ser	Ala	Arg	Arg
			260					265					270		
His	His	Leu	Ala	Met	Arg	Gln	Val	Phe	Thr	Thr	Leu	Leu	Ala	Asn	Trp
		275					280						285		
Pro	Val	Val	Val	Ala	Gly	Met	Leu	Met	Val	Ala	Met	Thr	Thr	Thr	Ala
	290					295					300				
Phe	Tyr	Leu	Ile	Thr	Val	Tyr	Ala	Pro	Thr	Phe	Gly	Lys	Lys	Val	Leu
305					310					315				320	
Met	Leu	Ser	Ala	Ser	Asp	Ser	Leu	Leu	Val	Thr	Leu	Leu	Val	Ala	Val
				325					330					335	
Ser	Asn	Phe	Ile	Trp	Leu	Pro	Val	Gly	Gly	Ala	Leu	Ser	Asp	Arg	Phe
			340					345					350		
Gly	Arg	Lys	Pro	Val	Leu	Ile	Ala	Met	Thr	Leu	Leu	Ala	Leu	Ala	Thr
		355					360					365			
Ser	Tyr	Pro	Ala	Leu	Thr	Met	Leu	Ala	Ala	Ala	Pro	Ser	Phe	Ser	Met
	370					375					380				
Met	Leu	Thr	Val	Leu	Leu	Trp	Leu	Ser	Phe	Leu	Tyr	Gly	Leu	Tyr	Asn
385					390					395				400	
Gly	Ala	Met	Ile	Pro	Ala	Leu	Thr	Glu	Ile	Met	Pro	Ala	Glu	Val	Arg
				405					410					415	
Val	Ala	Gly	Phe	Ser	Leu	Ala	Tyr	Ser	Leu	Ala	Thr	Ala	Val	Phe	Gly
			420					425					430		
Gly	Phe	Thr	Pro	Val	Ile	Ser	Thr	Ala	Leu	Ile	Glu	Tyr	Thr	Gly	Asp

435 440 445
 Lys Ala Ser Pro Gly Tyr Trp Met Ser Phe Ala Ala Val Cys Ala Leu
 450 455 460
 Leu Ala Thr Leu Tyr Leu Tyr Arg Arg Arg Thr Leu Ile Leu Gln Thr
 465 470 475 480
 Ala Val Lys Glu
 485

<210> 8618
 <211> 265
 <212> PRT
 <213> Enterobacter cloacae

<400> 8618
 Ser Leu Met Leu Thr Phe Arg Thr Val Ile Ala Ala Leu Thr Phe Ala
 1 5 10 15
 Thr Leu Ser Ala Gly Ala Leu Ala Gln Asp Val Thr Val Met Ile Ser
 20 25 30
 Gly Gly Phe Lys Ala Ala Leu Glu Lys Leu Thr Pro Gln Tyr Glu Ala
 35 40 45
 Gln Ser Gly Asp Arg Leu Ile Val Ile Ser Gly Pro Ser Met Gly Lys
 50 55 60
 Thr Pro Gln Ala Ile Pro Ala Arg Leu Ala Arg Gly Glu Lys Ala Asp
 65 70 75 80
 Val Val Ile Met Val Gly Asp Ala Leu Ala Lys Leu Glu Gln Asp Arg
 85 90 95
 Arg Thr Ala Ala Gly Ser Arg Val Glu Leu Ala Asp Ser Pro Val Gly
 100 105 110
 Met Val Val Lys Ala Gly Ala Pro Val Pro Asp Ile Ser Thr Val Pro
 115 120 125
 Ala Leu Arg Gln Thr Leu Leu Lys Ala His Ser Met Ala Tyr Ser Asp
 130 135 140
 Ser Ala Ser Gly Arg Tyr Val Glu Ser Gln Leu Phe Arg Lys Leu Gly
 145 150 155 160
 Ile Asp Gly Gln Val His Asp Lys Ala His Arg Val Glu Arg Ile Pro
 165 170 175
 Val Ala Ser Glu Val Ala Lys Gly Lys Tyr Asp Leu Gly Phe Gln Gln
 180 185 190
 Val Ser Glu Leu Leu Pro Val Pro Gly Val Thr Phe Val Gly Lys Leu
 195 200 205
 Pro Asp Asp Ile Gln Tyr Ile Thr Arg Phe Ala Gly Ala Val Thr Gln
 210 215 220
 Lys Ala Asp His Pro Glu Gln Gly Lys Ala Leu Leu Thr Phe Leu Ala
 225 230 235 240
 Ser Pro Gln Ala Ala Ser Val Ile Thr Ala Thr Gly Leu Thr Pro Val
 245 250 255
 Ser Ala Pro Arg Asp Thr Ala Arg
 260 265

<210> 8619
 <211> 279
 <212> PRT
 <213> Enterobacter cloacae

<400> 8619
 Pro Phe His Phe Val His Val Arg Val Thr Ser Lys Ala Met Ile Lys
 1 5 10 15
 Trp Pro Trp Lys Thr Asn Asp Ala Gly Arg Asn Met Ala Leu Pro Trp
 20 25 30
 Asp Glu Ala Leu Ala Ile Pro Val Leu Ala Asn Leu Leu Pro Glu Glu
 35 40 45

Gln Ser Lys Leu Ile Gln Leu Ala Glu Arg Phe Leu Gln Gln Lys Arg
 50 55 60
 Leu Val Pro Leu Gln Gly Phe Glu Leu Asp Pro Leu Lys Asn Ser Arg
 65 70 75 80
 Ile Ala Leu Leu Phe Cys Leu Pro Val Leu Glu Leu Gly Ile Glu Trp
 85 90 95
 Leu Asp Gly Phe His Glu Val Leu Ile Tyr Pro Ala Pro Phe Ile Val
 100 105 110
 Asp Asp Glu Trp Glu Asp Asp Ile Gly Leu Val His Asn Gln Arg Met
 115 120 125
 Val Gln Ser Gly Gln Ser Trp Gln Gln Gly Pro Ile Ile Leu Asn Trp
 130 135 140
 Leu Asp Ile Gln Asp Ser Phe Asp Ala Ser Gly Phe Asn Leu Ile Ile
 145 150 155 160
 His Glu Val Ala His Lys Leu Asp Thr Arg Asn Gly Asp Arg Ala Ser
 165 170 175
 Gly Val Pro Leu Ile Pro Leu Arg Glu Val Ala Gly Trp Glu His Asp
 180 185 190
 Leu His Ala Ala Met Glu Asn Ile Gln Asp Glu Ile Asp Leu Val Gly
 195 200 205
 Glu Ser Ala Ala Ser Ile Asp Ala Tyr Ala Ala Thr Asp Pro Ala Glu
 210 215 220
 Cys Phe Ala Val Leu Ser Glu Tyr Phe Phe Ser Ala Pro Glu Leu Phe
 225 230 235 240
 Ala Pro Arg Phe Pro Ala Leu Trp Gln Arg Phe Cys Gln Phe Tyr Gln
 245 250 255
 Gln Asp Pro Leu Gln Arg Leu Arg Gln Ser Glu Asp Ala Ala Ser Thr
 260 265 270
 Ser Ser His Pro Phe His
 275

<210> 8620

<211> 584

<212> PRT

<213> Enterobacter cloacae

<400> 8620

Gly Thr Thr Met Arg Thr Leu Leu Arg Ser Ala Gly Thr Asp Val Ala
 1 5 10 15
 Ala Gln Cys Phe Leu Asn Ala Leu Leu Arg Glu Thr Lys Asp Trp His
 20 25 30
 Tyr Leu Pro Ala Thr Arg Ala Asp Glu Leu Ser Leu Ile His Ile Pro
 35 40 45
 Leu Ser Pro Thr Gln Ala Ile Arg Val Pro Val Arg Tyr Phe Ser Pro
 50 55 60
 Thr Gln His His Gln Tyr Leu Phe Pro Ala Thr Leu Ile Gln Ala Asp
 65 70 75 80
 Ser Asp Gly Gly Asp Thr Val Thr Phe His Gln Leu Ile Asp Leu Ile
 85 90 95
 Ile Glu Lys Glu Thr Val Lys Gly Ala Leu Asp Ala Asp Thr Leu Ala
 100 105 110
 Arg Phe Lys Gln Arg Val Leu Glu Ser His Thr His Thr Trp Gln Ala
 115 120 125
 Ile Asp Leu Arg His Asn Trp Ala Asn Leu Arg Asp Lys Pro Leu Thr
 130 135 140
 Phe Ala Glu Ala Glu Gln Ala Leu Leu Val Gly His Ala Phe His Pro
 145 150 155 160
 Ala Pro Lys Ser His Glu Pro Phe Asn Glu Ala Glu Ala Arg Arg Tyr
 165 170 175
 Leu Pro Asp Phe Ala Ser Arg Phe Pro Leu Arg Trp Phe Ala Val Glu
 180 185 190

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His Glu Leu Ile Thr Gly Asp Ser Leu Asn Val Ser Leu Arg Glu Arg
    195                200                205
Leu Leu Arg Phe Ala Ala Gln Ser Ala Pro Ala Leu Leu Gly His Phe
    210                215                220
Thr Asp Thr Cys Trp Leu Leu Pro Met His Pro Trp Gln Ala Asp Tyr
225                230                235                240
Leu Leu Glu Gln Asp Trp Cys Gln Arg Leu Val Glu Lys Gly Ala Leu
    245                250                255
Arg Asp Leu Gly Glu Ala Gly Ala Pro Trp Leu Pro Thr Ser Ser Ser
    260                265                270
Arg Ser Leu Tyr Ser Glu Thr Asn Ser Asp Met Ile Lys Phe Ser Leu
    275                280                285
Ser Val Arg Leu Thr Asn Ser Val Arg Thr Leu Ser Val Lys Glu Val
    290                295                300
Lys Arg Gly Met Arg Leu Ala Arg Leu Ala Lys Thr Ala Arg Trp Gln
305                310                315                320
Gly Leu Gln Ala Arg Tyr Pro Thr Met Arg Val Met Gln Glu Asp Gly
    325                330                335
Trp Ala Gly Leu Arg Asp Glu His Gly Val Ile Gln Glu Glu Ser Leu
    340                345                350
Met Ala Leu Arg Val Asn Leu Leu Phe Asp Thr Pro Glu Thr Gln Thr
    355                360                365
Asn Val Leu Val Ser Leu Thr Gln Ala Ala Pro Asp Gly Gly Asp Ser
    370                375                380
Leu Leu Ala Ala Ala Val Arg Arg Leu Ser Gln Arg Leu Asp Leu Pro
385                390                395                400
Leu Ala Gln Ala Ala Arg Cys Trp Leu Asp Ala Tyr Cys Asp Arg Val
    405                410                415
Leu Leu Pro Leu Phe Ser Ala Glu Ala Asp Tyr Gly Leu Val Leu Leu
    420                425                430
Ala His Gln Gln Asn Ile Leu Val Glu Met Gln Gln Asp Phe Pro Val
    435                440                445
Gly Leu Ile Tyr Arg Asp Cys Gln Gly Ser Ala Trp Thr Glu Gly Ala
    450                455                460
Asp Ala Trp Leu Asn Glu Ala Gly Glu Thr Glu Val Glu Asn Arg Phe
465                470                475                480
Gly Glu Ser Gln Leu Leu Arg Tyr Phe Pro Tyr Tyr Leu Leu Leu Asn
    485                490                495
Ser Thr Leu Ala Val Thr Ala Ala Leu Ala Ala Ala Gly Phe Asp Ser
    500                505                510
Glu Glu Asn Leu Met Ser Arg Val Arg Asp Ala Leu Ala Glu Leu Arg
    515                520                525
Thr Thr Ala Lys Gln Thr Arg Cys Leu Asp Tyr Val Leu Asp Ser Pro
    530                535                540
Thr Trp Asn Cys Lys Gly Asn Phe Phe Cys Tyr Leu His Asp Arg Asn
545                550                555                560
Glu Asn Thr Ile Val Asp Pro Ala Val Ile Tyr Phe Asp Phe Ser Asn
    565                570                575
Pro Phe Tyr Lys Glu Lys Ala
    580

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<210> 8621

<211> 235

<212> PRT

<213> Enterobacter cloacae

<400> 8621

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Pro Ser Phe Ser Gly Leu Pro Gly Val Ser Ala Met Lys Thr Tyr Asp
1          5          10          15
Phe Ile Gly Ile Gly Ile Gly Pro Phe Asn Leu Ser Ile Ala Ala Leu
    20          25          30

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Ala	Glu	Gly	Leu	Asp	Gly	Phe	Ser	Ser	Leu	Phe	Leu	Glu	Arg	Lys	Pro
		35					40					45			
His	Phe	Ser	Trp	His	Pro	Gly	Met	Met	Val	Pro	Asp	Cys	His	Met	Gln
	50					55					60				
Thr	Ser	Phe	Leu	Lys	Asp	Leu	Val	Ser	Ala	Val	Glu	Pro	Thr	Asn	Arg
65					70					75					80
His	Ser	Phe	Leu	Asn	Tyr	Leu	Val	Gln	Arg	Lys	Lys	Phe	Tyr	Arg	Phe
				85					90					95	
Leu	Thr	Thr	Glu	Gln	Arg	Thr	Val	Ser	Arg	Glu	Glu	Phe	Ala	Asp	Tyr
			100					105					110		
Leu	Cys	Trp	Ala	Ala	Asp	Asn	Leu	Thr	Asn	Leu	Ala	Phe	Ser	Gln	Gln
		115					120					125			
Val	Gln	Gln	Val	Ser	Phe	Asp	Glu	Gln	Asn	Gly	Leu	Phe	Glu	Ile	Val
	130					135					140				
Thr	Gln	Arg	Asp	Arg	Phe	Leu	Ala	Arg	His	Val	Cys	Val	Gly	Ile	Gly
145					150					155					160
Lys	Gln	Ile	Asn	Leu	Pro	Asp	Cys	Val	Thr	Ala	Gln	Asp	Asp	Thr	Cys
			165						170					175	
Phe	His	Ala	Ser	Glu	Met	Met	Leu	Arg	Thr	Pro	Asp	Leu	Ala	Gly	Lys
		180						185					190		
Arg	Val	Thr	Val	Val	Gly	Gly	Gly	Gln	Ser	Gly	Ala	Asp	Leu	Phe	Leu
		195					200					205			
Asn	Ile	Phe	Arg	Gly	Glu	Trp	Gly	Gln	Pro	Leu	Ser	Leu	Asn	Trp	Val
	210					215					220				
Ser	Arg	Arg	Gln	Gln	Leu	Gln	Arg	Val	Gly						
225					230					235					

<210> 8622

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 8622

Pro	Pro	Lys	Gly	Ile	Thr	Thr	Glu	Ser	Leu	Leu	Gly	Ile	Tyr	Arg	Ala
1				5					10					15	
Met	Tyr	His	Arg	Phe	Glu	Val	Leu	Arg	Glu	Lys	Pro	Trp	Ala	His	Leu
		20						25					30		
Met	Pro	Ser	Arg	Ser	Val	Thr	Ala	Leu	Thr	Arg	Gln	Glu	Thr	Gly	Pro
		35					40					45			
Arg	Leu	Ser	Ile	Gln	His	His	Leu	Asp	Gly	Gly	Arg	Glu	Gln	Leu	Glu
	50					55					60				
Ser	Asp	Val	Val	Ile	Phe	Ala	Thr	Gly	Tyr	Arg	Ala	Val	Gln	Pro	Ala
65					70				75						80
Phe	Leu	Ala	Pro	Leu	Ser	Ser	Arg	Leu	Arg	Leu	Asp	Glu	Asp	Glu	Ala
			85						90					95	
Phe	Cys	Ile	Asn	Asn	Asp	Phe	Thr	Leu	Glu	Trp	Asp	Gly	Pro	Gln	Ser
		100						105					110		
Asn	Arg	Leu	Phe	Ala	Val	Asn	Ala	Gly	Met	His	Arg	Leu	Gly	Ile	Ala
		115					120					125			
Glu	Pro	Gln	Leu	Ser	Leu	Met	Ala	Trp	Arg	Ala	Ala	Arg	Ile	Leu	Asn
	130					135					140				
Arg	Ala	His	Asp	Asp	Glu	Pro	Phe	Glu	Leu	Ala	Thr	Thr	Pro	Gly	Val
145					150					155					160
Ile	His	Trp	Arg	Ser	Thr	Thr	Ser	Pro	Glu	Ser	Ser	Gln	Val	Phe	Lys
			165						170					175	
Ser	Leu	Ile	Lys	Thr	Thr	Glu	Tyr								
		180						185							

<210> 8623

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 8623

Gly Thr Met Arg Phe Arg His Leu Leu Pro Leu Ile Gly Ala Leu Phe
 1 5 10 15
 Ser Leu Tyr Ile Ile Trp Gly Ser Thr Tyr Phe Val Ile Arg Ile Gly
 20 25 30
 Val Glu Ser Trp Pro Pro Leu Met Met Ala Gly Ile Arg Phe Leu Thr
 35 40 45
 Ala Gly Val Leu Leu Met Ala Phe Leu Leu Leu Arg Gly His Arg Leu
 50 55 60
 Pro Pro Leu Arg Pro Leu Leu Asn Ala Ala Leu Ile Gly Leu Leu Leu
 65 70 75 80
 Leu Ala Val Gly Asn Gly Ala Val Thr Val Ala Glu His Gln Asn Val
 85 90 95
 Pro Ser Gly Ile Ala Ala Val Val Val Ala Thr Val Pro Leu Phe Thr
 100 105 110
 Leu Cys Phe Ser Arg Leu Phe Gly Ile Arg Thr Arg Lys Leu Glu Trp
 115 120 125
 Leu Gly Ile Ala Ile Gly Leu Val Gly Ile Ile Leu Leu Asn Ser Gly
 130 135 140
 Gly Asn Leu Ser Gly Asn Pro Trp Ala Ala Val Leu Ile Met Ile Gly
 145 150 155 160
 Ser Met Ser Trp Ala Phe Gly Ser Val Tyr Gly Ser Arg Ile Glu Leu
 165 170 175
 Pro Ser Gly Met Met Ala Gly Ala Ile Glu Met Leu Ala Ala Gly Ile
 180 185 190
 Val Leu Leu Met Ala Ser Ala Leu Thr Gly Glu Lys Leu Thr Ala Met
 195 200 205
 Pro Asp Leu Ser Gly Phe Leu Ala Val Gly Tyr Leu Ala Leu Phe Gly
 210 215 220
 Ser Ile Ile Ala Ile Asn Ala Tyr Met Tyr Leu Ile Arg Asn Val Ser
 225 230 235 240
 Pro Ala Val Ala Thr Ser Tyr Ala Tyr Val Asn Pro Val Val Ala Val
 245 250 255
 Leu Leu Gly Thr Gly Phe Ala Gly Glu Val Leu Ser Thr Ile Glu Trp
 260 265 270
 Leu Ala Leu Gly Val Ile Val Phe Ala Val Val Leu Val Thr Leu Gly
 275 280 285
 Lys Tyr Leu Leu Pro Ala Lys Pro Ile Val Thr Arg Cys Glu Val Glu
 290 295 300
 Lys Pro
 305

<210> 8624

<211> 523

<212> PRT

<213> Enterobacter cloacae

<400> 8624

Ser Asn Arg Ile Cys Val Phe Ala Val Arg Arg Ile Phe Asp Asn Leu
 1 5 10 15
 Arg Arg Glu Thr Met Lys Thr Lys Thr Ala Val Thr Pro Pro Ala Ala
 20 25 30
 Asn Leu Ala Ser Asn Gly Thr Ala Lys Arg Leu Leu Met Met Ala Leu
 35 40 45
 Pro Val Ile Val Ala Val Leu Leu Phe Val Pro Val Pro Asp Gly
 50 55 60
 Leu Pro Pro Tyr Ala Trp His Tyr Phe Ala Ile Phe Val Gly Val Ile
 65 70 75 80
 Val Gly Leu Ile Phe Glu Pro Leu Pro Gly Ala Val Ile Gly Leu Thr


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<210> 8625
<211> 443
<212> PRT
<213> Enterobacter cloacae
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<400> 8625

Thr	Glu	Val	Leu	Pro	Glu	Pro	Asn	Val	Ile	Asn	Met	Lys	Ile	Lys	Thr
1			5					10					15		
Asn	Arg	Thr	Leu	Leu	Ala	Ala	Leu	Val	Ile	Ser	Ser	Leu	Leu	Ser	Pro
			20					25					30		
Ala	Val	Met	Ala	Ala	Cys	Asn	Gly	Thr	Asp	Leu	Thr	Thr	Cys	Pro	Ala
		35					40					45			
Pro	Phe	Asp	Ala	Arg	Leu	Pro	Asp	Ala	His	Thr	Met	Leu	Thr	Trp	Ser
	50				55					60					
Gln	Ala	Asp	Arg	Val	Val	Gly	Phe	Arg	Asn	Asp	Tyr	Arg	Asn	Tyr	Ala
65				70					75						80
Gly	Asp	Val	Phe	Arg	His	Gly	Asn	Ala	Thr	Pro	Leu	Leu	Pro	Ala	Glu
				85					90					95	
Lys	Pro	Leu	Thr	Asp	Ala	Arg	Tyr	Gln	Val	Lys	Gly	Lys	Ile	Tyr	Asn
			100					105					110		
Leu	Gln	Asp	Tyr	Leu	Lys	Arg	Gln	Asn	Val	Ser	Gly	Met	Leu	Val	Leu
		115					120					125			
Lys	Asn	Gly	Lys	Val	Ala	Tyr	Lys	Tyr	Leu	Gly	Glu	Gly	Asn	Thr	Asp
	130					135					140				
Ser	Thr	Leu	Trp	Thr	Ser	Arg	Ser	Val	Gly	Lys	Ser	Val	Val	Ser	Ala
145					150					155					160
Leu	Val	Gly	Val	Ala	Ile	Lys	Glu	Gly	Lys	Ile	His	Ser	Leu	Asp	Asp
				165				170						175	
Leu	Val	Thr	Gln	Tyr	Glu	Pro	Asp	Leu	Lys	Gly	Thr	Ala	Trp	Glu	Gly
			180					185					190		
Val	Thr	Leu	Lys	Gln	Leu	Ile	Thr	His	Thr	Ser	Gly	Val	Ala	Trp	Thr
		195					200					205			
Glu	Asp	Tyr	Thr	Asn	Ala	Gln	Ser	Asp	Phe	Ala	Arg	Leu	Thr	Glu	Cys
	210					215					220				
Glu	Ala	Lys	Pro	Gly	Thr	Tyr	Asp	Cys	Val	Arg	Thr	Leu	Val	Lys	Gly
225				230						235					240
Leu	His	Arg	Glu	His	Pro	Ala	Gly	Glu	Asn	Trp	Ser	Tyr	Ser	Ser	Gly
				245					250					255	
Gly	Ala	Trp	Leu	Leu	Gly	Asp	Val	Leu	Glu	Arg	Ala	Thr	Gly	Met	Thr
			260					265					270		
Leu	Ala	Ala	Tyr	Leu	Glu	Lys	Ser	Ile	Trp	Gln	Pro	Tyr	Gly	Met	Ala
		275					280					285			
Ser	Asp	Gly	Val	Trp	His	Ala	Tyr	Ser	Lys	Gly	Gln	His	Asp	Val	Gly
	290					295					300				
Ala	His	Gly	Phe	Asn	Ala	Thr	Leu	Glu	Asp	Trp	Gly	Arg	Phe	Gly	Glu
305				310						315					320
Phe	Ile	Leu	His	Asn	Gly	Thr	Leu	Pro	Asp	Gly	Lys	Gln	Ile	Leu	Pro
				325					330					335	
Glu	Gly	Trp	Val	Lys	Gln	Ser	Ser	Ala	Trp	Thr	Gln	Ala	Lys	Gly	Ser
			340					345					350		
Val	Ser	Glu	Ala	His	Pro	Lys	Gly	Leu	Tyr	Gly	Tyr	Gln	Trp	Trp	Asn
		355					360					365			
Asn	Glu	Val	Pro	Ala	Thr	Ala	Thr	Asn	Val	Glu	Pro	Lys	Val	Glu	Asn
	370					375					380				
Ser	Leu	Lys	Asp	Ser	Leu	Trp	Ala	Leu	Gly	Ile	Phe	Gly	Gln	Met	Ile
385					390					395					400
Met	Val	Asn	His	Lys	Glu	Asn	Leu	Val	Ile	Val	Gln	Trp	Ser	Thr	Trp
				405					410					415	
Pro	Gln	Ala	Glu	Pro	Ser	Phe	Ser	Ala	Gln	Pro	Leu	Glu	Ala	Ser	Leu
		420						425					430		
Met	Phe	Ser	Ala	Ile	Ala	Asn	Ala	Leu	Arg						
		435					440								

<210> 8626

<211> 636

<212> PRT

<213> Enterobacter cloacae

<400> 8626

Thr	Ala	His	Gly	Ala	His	Cys	Gly	Gly	Thr	Ala	Leu	Arg	Gln	Pro	Ala
1				5					10					15	
Ser	Val	Pro	Pro	Ser	Gly	Val	Arg	Arg	Phe	Arg	His	Gly	Glu	Arg	Val
		20					25						30		
Arg	Leu	Pro	Ala	Gln	Thr	Leu	Pro	Pro	His	His	Glu	Arg	Ala	Ser	Ser
		35				40						45			
Leu	Leu	Pro	Arg	Gly	Gly	Thr	Val	Asn	Ala	Leu	Trp	Gln	Lys	Val	Asn
	50					55					60				
Arg	Glu	Met	Val	Ala	Lys	Ile	Leu	Ala	Glu	Leu	Glu	Tyr	Glu	Arg	Thr
65					70					75					80
Leu	Arg	Ala	Glu	Pro	Asp	Ser	Ala	Asp	Tyr	Trp	Arg	Ile	Ser	Met	Gly
				85					90					95	
Asn	Ala	Cys	Trp	Gln	Phe	Arg	Ala	Thr	Arg	Gly	Ile	Trp	Gly	Trp	Leu
			100					105					110		
His	Ile	Asp	Pro	Asp	Thr	Leu	Thr	Thr	Thr	Ser	Gly	Ala	Ala	Val	Glu
		115				120						125			
Ala	Glu	Asn	Ala	Leu	Leu	Gln	Leu	Ala	Thr	Val	Leu	Glu	Met	Ser	Asp
	130					135					140				
Ala	Gln	Thr	Ala	Glu	His	Met	Glu	Asp	Leu	Tyr	Ala	Thr	Leu	Arg	Gly
145					150					155					160
Asp	Met	Gln	Leu	Leu	Gln	Ala	Arg	Glu	Thr	Leu	Asp	Ala	Asp	Ala	Leu
				165					170					175	
Ile	His	Leu	Asp	Pro	Asp	Glu	Leu	Gln	Cys	Leu	Met	Arg	Gly	His	Pro
		180						185					190		
Lys	Phe	Ile	Phe	Asn	Lys	Gly	Arg	Arg	Gly	Trp	Gly	Leu	Asp	Ala	Leu
		195					200					205			
Arg	Leu	Tyr	Ala	Pro	Glu	Tyr	Arg	Gly	Arg	Phe	Arg	Leu	His	Trp	Val
	210					215						220			
Ala	Val	Gln	Arg	Asp	Arg	Leu	Val	Trp	Ser	Ser	Asp	Ala	Asp	Cys	Asp
225					230					235					240
Ile	Asn	Ala	Leu	Leu	Ser	Ser	Ala	Met	Asp	Asp	Ala	Glu	Arg	Glu	Arg
				245					250					255	
Phe	Asp	Ala	Arg	Trp	Gln	Glu	Leu	Asp	Leu	Asp	Asp	Ser	Trp	Leu	Pro
		260						265					270		
Val	Pro	Leu	His	Pro	Trp	Gln	Trp	Gln	Gln	Lys	Ile	Ala	Ile	His	Phe
		275					280					285			
Leu	Ala	Gln	Leu	Ala	Arg	Gly	Glu	Met	Val	Glu	Leu	Gly	Glu	Phe	Gly
	290					295					300				
Asp	Glu	Tyr	Leu	Ala	Gln	Gln	Ser	Leu	Arg	Thr	Leu	Thr	Asn	Ala	Ser
305					310					315					320
Arg	Arg	Thr	Pro	Tyr	Asp	Ile	Lys	Leu	Pro	Leu	Thr	Ile	Tyr	Asn	Thr
				325					330					335	
Ser	Cys	Tyr	Arg	Gly	Ile	Pro	Gly	Lys	Tyr	Ile	Ala	Ala	Gly	Pro	Leu
			340					345					350		
Ala	Ser	Arg	Trp	Leu	Gln	Gln	Gln	Phe	Ala	Ser	Asp	Ala	Thr	Leu	Ile
		355					360					365			
Arg	Ser	Gly	Ala	Gln	Val	Leu	Gly	Glu	Pro	Ala	Ala	Gly	Tyr	Leu	Ser
		370				375					380				
His	Pro	Gly	Tyr	Ala	Ala	Leu	Pro	Glu	Ala	Pro	Tyr	Arg	Tyr	Gln	Glu
385					390					395					400
Met	Leu	Gly	Val	Ile	Trp	Arg	Glu	Asn	Pro	Ser	Cys	Tyr	Leu	Gln	Asp
				405					410					415	
Gly	Glu	Gln	Ala	Val	Leu	Met	Ala	Ala	Leu	Met	Glu	Thr	Asp	Asn	Gln
		420						425					430		
Gly	Arg	Pro	Leu	Ile	Asp	Ala	Trp	Ile	Lys	Arg	Ser	Gly	Leu	Thr	Ala
		435					440					445			
Asp	Ala	Trp	Leu	Glu	Lys	Leu	Phe	Glu	Ala	Thr	Val	Ile	Pro	Phe	Tyr
	450					455					460				

His Leu Leu Cys Arg Tyr Gly Val Ala Leu Ile Ala His Gly Gln Asn
 465 470 475 480
 Val Thr Leu Val Met Lys Asp Tyr Val Pro Gln Arg Ile Leu Leu Lys
 485 490 495
 Asp Phe Gln Gly Asp Met Arg Leu Val Asp Glu Asp Phe Pro Gln Ala
 500 505 510
 Gln Ser Leu Pro Glu Gln Val Lys Ala Val Thr Ala Arg Leu Ser Ala
 515 520 525
 Asp Tyr Ile Ile His Asp Leu Gln Thr Gly Asn Phe Val Thr Val Leu
 530 535 540
 Arg Phe Ile Ser Arg Leu Thr Leu Gln Cys Gly Val Asn Glu Thr Arg
 545 550 555 560
 Phe Tyr Gln Ile Leu Ala Leu Val Leu His Arg Tyr Met Ala Ala His
 565 570 575
 Pro Asp Leu Ala Ala Arg Phe Ala Lys Phe Asp Leu Phe Lys Pro Gln
 580 585 590
 Ile Ile Arg Val Ile Leu Asn Pro Val Lys Leu Thr Phe Ser Glu His
 595 600 605
 Asp Gly Gly Ser Arg Met Leu Pro Asn Tyr Val Cys Asp Leu Asp Asn
 610 615 620
 Pro Leu Phe Leu Ala Ser Arg Glu Ser Ala Gln
 625 630 635

<210> 8627

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 8627

Asn Val Met Ala Leu Pro Ala Arg Pro Gly Glu Gln Thr Arg Tyr Ser
 1 5 10 15
 Ala Pro Ala Ile His Ala Leu Ser Arg His Ser Asp Pro Ser Ala Pro
 20 25 30
 Ser Val Pro Pro Phe Cys Thr Gly Gly Tyr Ser Phe Pro Ala Arg Pro
 35 40 45
 Ser Pro Ala Pro Gly Tyr Ile Pro Pro Leu Pro Ser Gln Trp Gln Phe
 50 55 60
 Val Val Arg Pro Ile Trp Cys Cys Leu Pro Pro Asp Gln Arg Ala Gly
 65 70 75 80
 Cys Cys Thr Pro Val Leu Ser Val Pro Pro Asp Arg Trp
 85 90

<210> 8628

<211> 245

<212> PRT

<213> Enterobacter cloacae

<400> 8628

Arg Glu Glu Tyr Arg Val Ile Asn Val Leu Ile Val Asp Asp Asp Ala
 1 5 10 15
 Met Val Ala Asp Leu Asn Arg Leu Tyr Val Asn Arg Val Glu Gly Phe
 20 25 30
 Ser Cys Cys Gly Val Ala Ser Thr Leu Asn Gln Ala Glu Ala Leu Ile
 35 40 45
 Ala Asn Pro Gly Gln Pro Ile Asp Leu Val Leu Leu Asp Val Tyr Met
 50 55 60
 Gln Gln Asp Asn Gly Leu Asp Leu Leu Pro Ile Ile Arg Ala Ser Gly
 65 70 75 80
 Arg Pro Ile Asp Val Ile Met Ile Ser Ser Ala Ser Asp Ala Ala Thr
 85 90 95
 Ile Gln Thr Ser Met His Tyr Gly Val Val Asp Tyr Leu Ile Lys Pro

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<210> 8629
<211> 565
<212> PRT
<213> Enterobacter cloacae
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Pro 1	Pro	Asp	Ile	Ser 5	Ser	Gly	Gly	Phe	Ile 10	Phe	Val	Glu	Gln	Ala 15	Met
Ser	Asn	Lys	Pro 20	Phe	Ile	Tyr	Gln	Asn 25	Pro	Phe	Pro	Leu	Ala 30	His	Asp
Asp	Thr	Glu 35	Tyr	Tyr	Leu	Leu	Thr 40	Lys	Glu	His	Val	Ser 45	Val	Ala	Glu
Phe	Asp 50	Gly	Gln	Glu	Val	Leu 55	Lys	Val	Glu	Pro	Glu 60	Ala	Leu	Thr	Leu
Leu 65	Ala	Gln	Gln	Ala	Phe 70	His	Asp	Ala	Ala	Phe 75	Met	Leu	Arg	Pro	Ser
His	Gln	Lys	Gln	Val 85	Ala	Ala	Ile	Leu 90	Asn	Asp	Pro	Glu	Ala 95	Ser	Gln
Asn	Asp	Lys	Tyr 100	Val	Ala	Leu	Gln	Phe 105	Leu	Arg	Asn	Ser 110	Glu	Ile	Ala
Ala	Lys	Gly 115	Val	Leu	Pro	Thr	Cys 120	Gln	Asp	Thr	Gly 125	Thr	Ala	Ile	Ile
Met	Gly 130	Lys	Lys	Gly	Gln	Arg 135	Val	Trp	Thr	Gly 140	Gly	Gly	Asp	Glu	Ala
Ala 145	Leu	Ser	Gln	Gly 150	Val	Tyr	Asn	Thr	Tyr 155	Ile	Glu	Asp	Asn	Leu	Arg
Tyr	Ser	Gln	Asn 165	Ala	Ala	Leu	Asp	Met 170	Tyr	Lys	Glu	Val	Asn 175	Thr	Gly
Thr	Asn	Leu 180	Pro	Ala	Gln	Ile	Asp 185	Leu	Tyr	Ser	Val	Asp 190	Gly	Asp	Glu
Tyr	Lys	Phe 195	Leu	Cys	Met	Ala 200	Lys	Gly	Gly	Gly	Ser 205	Ala	Asn	Lys	Thr
Tyr	Leu 210	Tyr	Gln	Glu	Thr	Lys 215	Ala	Leu	Ile	Thr 220	Pro	Ala	Lys	Leu	Lys
Lys 225	Tyr	Leu	Val	Glu 230	Lys	Met	Arg	Thr	Leu 235	Gly	Thr	Ala	Ala	Cys	Pro
Pro	Tyr	His	Ile 245	Ala	Phe	Val	Ile	Gly 250	Gly	Thr	Ser	Ala 255	Glu	Ala	Thr
Leu	Lys	Thr 260	Val	Lys	Leu	Ala	Ser 265	Ala	Arg	Tyr	Tyr	Asp 270	Gly	Leu	Pro
Thr	Glu	Gly	Asn	Ala	His	Gly	Gln	Ala	Phe	Arg	Asp	Val	Gln	Leu	Glu

275 280 285
 Gln Glu Leu Leu Gln Glu Ala Gln Asn Leu Gly Leu Gly Ala Gln Phe
 290 295 300
 Gly Gly Lys Tyr Phe Ala His Asp Ile Arg Val Ile Arg Leu Pro Arg
 305 310 315 320
 His Gly Ala Ser Cys Pro Ile Gly Met Gly Val Ser Cys Ser Ala Asp
 325 330 335
 Arg Asn Ile Lys Ala Lys Ile Asn Arg Glu Gly Ile Trp Ile Glu Lys
 340 345 350
 Leu Glu His Asn Pro Gly Gln Tyr Ile Pro Glu Ser Leu Arg Gln Gln
 355 360 365
 Gly Glu Gly Asp Val Val Ser Ile Asp Leu Asn Lys Pro Met Pro Asp
 370 375 380
 Ile Leu Ala Gln Leu Ser Ala His Pro Val Ser Thr Arg Leu Ser Leu
 385 390 395 400
 Asn Gly Thr Ile Ile Val Ala Arg Asp Ile Ala His Ala Lys Leu Lys
 405 410 415
 Glu Leu Leu Asp Asn Gly Glu Glu Leu Pro Gln Tyr Val Lys Asp His
 420 425 430
 Pro Ile Tyr Tyr Ala Gly Pro Ala Lys Thr Pro Glu Gly Tyr Ala Ser
 435 440 445
 Gly Ser Leu Gly Pro Thr Thr Ala Gly Arg Met Asp Ser Tyr Val Asp
 450 455 460
 Leu Leu Gln Ser Asn Gly Ala Ser Met Ile Met Leu Ala Lys Gly Asn
 465 470 475 480
 Arg Ser Gln Gln Val Thr Asp Ala Cys His Lys His Gly Gly Phe Tyr
 485 490 495
 Leu Gly Ser Ile Gly Gly Pro Ala Ala Val Leu Ala Gln Asn Ser Ile
 500 505 510
 Lys Ser Leu Glu Cys Val Ala Tyr Pro Glu Leu Gly Met Glu Ala Ile
 515 520 525
 Trp Lys Ile Glu Val Glu Asn Phe Pro Ala Phe Ile Leu Val Asp Asp
 530 535 540
 Lys Gly Asn Asp Phe Phe Gln Glu Ile Gln Asn Lys Gln Cys Lys Gly
 545 550 555 560
 Cys Ser Gln Arg
 565

<210> 8630

<211> 320

<212> PRT

<213> Enterobacter cloacae

<400> 8630

Gly Glu Gly Val Met Ala Asn Ala Asn Ile Val His Ser Gly Tyr Gly
 1 5 10 15
 Phe Arg Cys Thr Val Thr Glu Gln Asn Leu Pro Leu Thr Leu Gly Leu
 20 25 30
 Asp Gly Ser Ala Val Met Glu Arg Leu Ile Gly Leu Pro Asp Gly Trp
 35 40 45
 Leu Val Asp Ala Leu Asp Gln Leu Phe Val Ala Ala Pro Ala Leu Thr
 50 55 60
 Gly Ile Thr Leu Pro Trp Ala Ala Trp Gln Asp Glu Pro Gln Ala Gln
 65 70 75 80
 Ala Leu Phe Ser Leu Val His Gly Asp Tyr Leu Ala Arg Glu Ile Phe
 85 90 95
 Trp Gln Leu Pro Leu Trp Leu Lys Gly Glu Arg Pro Gln Ala Ser Gly
 100 105 110
 Gly Met Gln Phe Asp Glu Ser Arg Gln Leu Tyr Phe Pro Leu Arg Pro
 115 120 125
 His Arg Pro Gln Gly Glu Val Tyr Arg Arg Tyr Asp Pro Gln Ile Lys

130	135	140
Arg Thr Leu Ser Phe	Arg Val Ala Asp Val	Ala Leu Asp Gly Glu Arg
145	150	155
Phe Thr Arg Trp Met	Asn Thr Pro Arg Val	Asn Ala Phe Trp Glu Met
165	170	175
Ala Gly Pro Gln Ala	Glu Gln Glu Asn Tyr	Leu Arg Arg Gln Leu Asp
180	185	190
Ser Thr Tyr Cys Tyr	Pro Val Leu Gly Cys	Phe Asp Asp Gln Pro Phe
195	200	205
Gly Tyr Phe Glu Leu	Tyr Trp Ala Ala Glu	Asp Arg Ile Gly Arg His
210	215	220
Tyr Arg Trp Gln Pro	Phe Asp Arg Gly Leu	His Met Leu Val Gly Glu
225	230	235
Glu Asn Trp Arg Gly	Ala Gln Tyr Ile Arg	Ser Trp Leu Arg Gly Leu
245	250	255
Ser His Tyr Leu Tyr	Leu Asp Glu Pro Arg	Thr Ala Arg Ile Val Ala
260	265	270
Glu Pro Arg Phe Asp	Asn Gln Arg Leu Phe	Arg His Leu Ala Ser Ala
275	280	285
Gly Phe Asp Thr Val	Lys Glu Phe Asp Phe	Pro His Lys Arg Ser Arg
290	295	300
Leu Ile Met Ser Glu	Arg His Arg Phe Phe	His Glu Val Glu Leu
305	310	315
		320

<210> 8631

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 8631

Asp Cys Asp Pro	Ala Gly Ser Leu	Pro Gly Ala Ala	Arg Leu Arg Gly
1	5	10	15
Asp Trp Glu Ala	Asp Gln Ser Ala	Arg Leu Arg His	Arg Ala Gly Arg
20	25	30	
Tyr Leu Leu Pro	Arg Gln Arg Asn	Asp Ala Ala His	Ala Gly Phe Ser
35	40	45	
Gly Gln Ala Arg	His Arg Arg Arg	Arg Pro Glu Arg	Cys Gly Ser
50	55	60	
Val Pro Glu Tyr	Leu Pro Trp Gly	Met Gly Pro Ala	Ala Glu Pro Gln
65	70	75	80
Leu Gly Val Ala	Pro Pro Thr Thr	Thr Thr Arg Trp	Met Lys Pro Gly
85	90	95	
Leu Leu Thr Ile	Ile Phe Thr Pro	Glu Tyr Val Asp	Ser Phe Ser Thr
100	105	110	
Phe Gly Asp Asp	Ala Gly Ser Gln	Met Leu Gln Glu	Gln Lys Met Thr
115	120	125	
Ser Glu Gly Asp	His His Arg Val	Leu Ala Gly Asp	Ile Pro Arg His
130	135	140	
Val Pro Pro Phe	Arg Ser Ala Ala		
145	150		

<210> 8632

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 8632

Ile Ile Asn Lys	Asp His Arg Val	Leu Thr His Thr	Phe Arg Ile Asn
1	5	10	15
Ile Thr Met Lys	Arg Ser His Leu	Trp Val Leu Asn	Pro Cys Leu Leu
20	25	30	

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<210> 8633
<211> 238
<212> PRT
<213> Enterobacter cloacae
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<400> 8633
Ile Leu Arg Leu Tyr Leu Ser Leu Glu Lys Val Glu Lys Lys Ser Asp
1          5          10          15
Thr Ile Glu Ser Thr Val Ser Phe Gln Val Asn Ala Met Ser Ser Asp
20          25          30
Lys Pro Ser His Arg Gly Ser Pro Tyr Ala Gln Glu Leu Ile Ser His
35          40          45

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Leu Gln Pro His Cys Thr Thr His Lys Thr Asp Pro Gly Glu Gln Leu
 50      55      60
Asn Leu Gln Val Asn Gly Gln Ser Met Cys Tyr Leu Ile Leu Asp Gly
65      70      75      80
Thr Val Ala Ile Tyr Arg Arg Ser Asp Asp Met Met Leu Ser Thr Ala
      85      90      95
Arg Ser Pro Ala Leu Phe Gly Leu Ala Asn Leu Thr Asp Ile Tyr Phe
      100      105      110
Thr Asp Tyr Leu Arg Thr Val Thr Pro Cys Leu Ile Gly Val Leu Thr
      115      120      125
Thr Asp Arg Val Ala Glu Ile Ile Lys Glu Lys Ala Leu Trp Gly Leu
      130      135      140
Leu Ser Asn His Leu Met Phe Val Tyr Asn Arg Leu Tyr His Asn Val
145      150      155      160
Met Pro Lys Gly Ala Pro Thr Ala Tyr Glu Met Ile Arg Gln Gln Leu
      165      170      175
Val Leu Leu Met Gln Glu Asp Asp Ser Tyr Arg Arg Ser Val Thr Ala
      180      185      190
Glu Arg Tyr Ile Arg Asp Lys Thr Gln Leu Ser Arg Ser Gly Val Met
      195      200      205
Arg Ile Leu Ala Asp Leu Lys Thr Gly Gly Phe Ile Glu Met Glu Glu
      210      215      220
Gly Arg Leu Ile Lys Ile Asn Lys Leu Pro Ala Arg Tyr
225      230      235

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<210> 8634

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 8634

```

Leu Leu Phe Ile Asn Ile Met Ser Pro Thr Asp Asn Ser Ala Ala Thr
1      5      10      15
Pro Thr Lys Thr His Thr Ala Pro Ser Pro Ala Pro Thr Asp Arg Arg
      20      25      30
Ile Asp Ser Lys Ser Leu Leu Gly Glu Glu Gly Arg Val Ile Ile Glu
      35      40      45
His Asp Gly Gln His Tyr Leu Arg Gln Thr Asn Ala Gly Lys Leu
      50      55      60
Ile Leu Thr Lys
65

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<210> 8635

<211> 399

<212> PRT

<213> Enterobacter cloacae

<400> 8635

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Arg Ser Ala Ala Val Gln Arg His His His His Pro Arg Ala Gly Glu
1      5      10      15
Arg Leu Arg Gln Ser Leu Leu Val Thr Ala Gly His Pro Ala Gly Trp
      20      25      30
Pro Gln Arg Gln Asp Leu Arg Gln Leu Ser Met Val Ile Pro Phe Gly
      35      40      45
Ala Thr Ile Gln Lys Asp Lys Ile Met Gly His Tyr Thr Arg Trp Leu
      50      55      60
Glu Leu Lys Glu Glu His Pro Gly Lys Tyr Ala Arg Asp Ile Ala Gly
65      70      75      80
Leu Met His Ile Ser Glu Ala Glu Leu Ala Phe Ala Arg Val Gly His
      85      90      95
Asp Ala Trp Arg Leu Arg Gly Glu Ile Arg Glu Ile Leu Ala Ala Leu

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<210> 8636
<211> 228
<212> PRT
<213> Enterobacter cloacae
```

Ser	His	Gln	Ser	Val	Arg	Ser	Gln	Met	Asn	Thr	Arg	Phe	Ala	Pro	Glu
1				5					10					15	
Ser	Glu	Ile	Asp	Lys	Ser	Thr	Val	Leu	Gly	Ala	Lys	Pro	Phe	Lys	His
			20					25					30		
Ile	Glu	Lys	Ile	Ile	Asp	Asn	Val	Leu	Pro	His	Ala	Glu	Arg	Gly	Ile
		35					40					45			
Ile	Ala	Arg	Gly	Glu	Ile	Ile	His	Tyr	Cys	Ser	Gly	Asp	Thr	Arg	Gln
	50					55					60				
Cys	Phe	Leu	Leu	Leu	His	Gly	Ser	Val	Ala	Leu	His	Arg	Arg	Gly	Asp
65				70						75					80
Gly	Ile	Val	Leu	Asn	Ser	Glu	Ser	Ala	Pro	Phe	Ile	Leu	Gly	Val	Ser
			85						90					95	
Ser	Gln	Leu	Ser	Ser	Glu	His	Leu	Tyr	Val	Arg	Ala	Leu	Glu	Thr	Ser
			100					105					110		
Glu	Val	Ala	Ser	Val	Ser	Leu	Ala	Arg	Phe	Asn	His	Val	Val	Ala	Gln
		115					120					125			
Gln	Asn	Leu	Trp	Glu	His	Phe	Ser	Asn	Leu	Leu	Ile	Tyr	Thr	Ala	Ser

130	135	140
Arg Val Tyr Glu His Cys	Ala Gln Ile Ser Gln Met Ser Ala Tyr Asp	
145	150	155
Ile Ile Arg Phe Gln Leu Val Glu Leu Met Gln Glu Pro Glu Ala Ile		160
	165	170
Ile Gln Asn Ile Thr Ala Ala Ala Tyr Ile Lys Ser Arg Thr Tyr Leu		175
	180	185
Ser Arg Ser Gly Ile Met Arg Ile Leu Ala Glu Leu Arg Thr Gly Lys		190
	195	200
Tyr Ile Thr Met Glu Arg Gly Val Leu Val Glu Ile His His Leu Pro		205
	210	215
Arg Lys Tyr		220
225		

<210> 8637

<211> 689

<212> PRT

<213> Enterobacter cloacae

<400> 8637

Leu Asn Lys Pro Asp Asn Thr Phe Ala Ser His Pro Gly Asp Pro Gln	
1	5
Ala Ala Ser Ala Phe Gln Phe Leu Trp Arg Val Ala Met Pro His Leu	10
	20
Gln Ser Ala Ser Leu Arg Pro Ser Leu Leu Ala Leu Ala Ile Val Ser	25
	30
Thr Leu Pro Gly Val Thr Phe Ala Ala Ala Asp Glu Ile Thr Val Thr	35
	40
Ala Thr Gly Asn Ala Arg Ser Ala Phe Glu Ala Pro Met Met Val Ser	45
	50
Val Ile Asp Ala Thr Ala Pro Glu Asn Gln Thr Ala Ser Ser Ala Ala	55
	60
Asp Leu Leu Arg Lys Val Pro Gly Leu Thr Leu Asp Gly Thr Gly Arg	65
	70
Thr Asn Gly Gln Asp Val Asn Leu Arg Gly Tyr Asp Arg Arg Gly Val	75
	80
Leu Val Leu Val Asp Gly Val Arg Gln Gly Thr Asp Thr Gly His Leu	85
	90
Asn Ser Thr Phe Leu Asp Pro Ala Leu Ile Lys Arg Ile Glu Val Val	95
	100
Arg Gly Pro Ser Ala Leu Leu Tyr Gly Ser Gly Ala Leu Gly Gly Val	105
	110
Ile Ser Tyr Asp Thr Val Asp Ala Ser Asp Leu Leu Asp Ala Gly Lys	115
	120
Asn Ser Gly Tyr Arg Val Phe Ala Thr Gly Ala Thr Gly Asp His Ser	125
	130
Ile Gly Met Gly Ala Ser Ala Tyr Gly Arg Thr Asp Thr Leu Asp Gly	135
	140
Leu Val Ser Trp Ser Ser Arg Asp Arg Gly Asp Ile Arg Gln Ser Asp	145
	150
Gly Ala Arg Ala Pro Asn Asp Glu Ser Ile Asn Asn Met Leu Ala Lys	155
	160
Gly Ser Trp Lys Ile Asp Pro Ala Gln Thr Leu Ser Gly Ser Leu Arg	165
	170
Tyr Tyr Asn Asn Asp Ala Gln Glu Pro Lys Asn Pro Gln Thr Thr Asp	175
	180
Ala Ser Ser Ser Asn Pro Met Thr Asp Arg Ser Thr Ile Gln Arg Asp	185
	190
Ala Gln Leu Gly Tyr Arg Ile Ala Pro Ala Gly Asn Asn Trp Leu Asn	195
	200
Ala Asp Ala Lys Ile Tyr Trp Ser Glu Ala Arg Ile Asn Ala Gln Asn	205
	210
	215
	220
	225
	230
	235
	240
	245
	250
	255
	260
	265
	270
	275
	280
	285
	290
	295
	300
	305
	310
	315
	320

				325				330					335				
Ile	Asp	Ala	Ser	Gly	Glu	Phe	Leu	Lys	Gln	Thr	Thr	Lys	Gly	Gly	Lys		
			340					345					350				
Val	Glu	Asn	Arg	Thr	Arg	Leu	Phe	Ser	Asp	Ser	Phe	Ala	Ser	His	Leu		
		355					360					365					
Leu	Thr	Tyr	Gly	Gly	Glu	Tyr	Tyr	Arg	Gln	Glu	Gln	His	Pro	Gly	Gly		
	370					375					380						
Ala	Thr	Thr	Gly	Phe	Pro	Asp	Ala	Lys	Ile	Asp	Phe	Ser	Ser	Gly	Trp		
385					390					395					400		
Leu	Gln	Asp	Glu	Ile	Thr	Leu	Arg	Asp	Leu	Pro	Val	Thr	Leu	Leu	Gly		
				405					410					415			
Gly	Thr	Arg	Tyr	Asp	Asn	Tyr	Arg	Gly	Ser	Ser	Ser	Gly	Tyr	Asp	Asp		
		420						425					430				
Val	Asp	Ala	Asp	Lys	Trp	Ser	Ser	Arg	Ala	Gly	Leu	Thr	Val	Ser	Pro		
	435					440						445					
Ala	Asp	Trp	Leu	Met	Leu	Phe	Gly	Ser	Tyr	Ala	Gln	Ala	Phe	Arg	Ala		
	450					455					460						
Pro	Thr	Met	Gly	Glu	Met	Tyr	Asn	Asp	Ser	Lys	His	Phe	Ser	Ile	Gly		
465					470					475					480		
Ser	Phe	Tyr	Thr	Asn	Tyr	Trp	Val	Pro	Asn	Pro	Asn	Leu	Arg	Pro	Glu		
				485					490					495			
Thr	Asn	Glu	Thr	Gln	Glu	Phe	Gly	Phe	Gly	Leu	Arg	Phe	Asp	Asp	Leu		
		500						505					510				
Leu	Leu	Ala	Asn	Asp	Ala	Leu	Glu	Phe	Lys	Ala	Ser	Tyr	Phe	Asp	Thr		
	515					520						525					
Lys	Ala	Lys	Asp	Tyr	Ile	Ser	Thr	Thr	Val	Asp	Phe	Ala	Ala	Ala	Thr		
	530					535				540							
Thr	Met	Ser	Tyr	Asn	Val	Pro	Asn	Ala	Lys	Ile	Trp	Gly	Trp	Asp	Met		
545				550					555						560		
Met	Ala	Thr	Tyr	Ala	Thr	Ser	Leu	Phe	Asn	Leu	Asp	Val	Ala	Tyr	Asn		
				565					570					575			
Arg	Thr	Arg	Gly	Lys	Asp	Thr	Asp	Thr	Gly	Glu	Tyr	Ile	Ser	Ser	Ile		
			580					585					590				
Asn	Pro	Asp	Thr	Val	Thr	Ser	Lys	Leu	Asp	Ile	Pro	Val	Ala	Gln	Ser		
	595						600					605					
Gly	Phe	Ser	Val	Gly	Trp	Ile	Gly	Thr	Phe	Val	Glu	Arg	Ser	Thr	His		
	610					615				620							
Ile	Ser	Ser	Ser	Tyr	Ser	Glu	Gln	Pro	Gly	Tyr	Ala	Val	Asn	Asp	Phe		
625				630					635						640		
Tyr	Val	Ser	Tyr	Lys	Gly	Gln	Gln	Gln	Phe	Lys	Gly	Ile	Thr	Thr	Thr		
				645					650					655			
Leu	Val	Leu	Gly	Asn	Ala	Phe	Asp	Lys	Ala	Tyr	Trp	Ser	Pro	Gln	Gly		
			660					665					670				
Ile	Pro	Gln	Asp	Gly	Arg	Asn	Gly	Lys	Ile	Phe	Val	Ser	Tyr	Gln	Trp		
		675					680					685					

<210> 8638

<211> 357

<212> PRT

<213> Enterobacter cloacae

<400> 8638

His	Gly	Pro	Ala	Gly	Leu	Gln	Arg	Pro	His	Ala	Glu	Ser	His	Thr	Thr		
1			5					10						15			
Ala	Ala	Cys	Gln	Ser	Gly	Ala	Thr	Ala	Leu	Met	Ser	Arg	Arg	Ile	Thr		
		20						25					30				
Leu	Ser	Leu	Trp	Leu	Leu	Ala	Gly	Ser	Leu	Thr	Val	Met	Thr	Ile	Met		
	35					40					45						
Ala	Thr	Gly	Phe	Gly	Ala	Leu	Arg	Leu	Pro	Val	Asn	Val	Leu	Trp	Ser		

50	55	60
Gly Ser Asp Glu Thr	Leu Arg His Ile Trp	Leu Thr Ile Arg Leu Pro
65	70	75
Arg Val Leu Leu Ala	Leu Val Ile Gly Gly	Ser Leu Ala Leu Ala Gly
	85	90
Cys Val Met Gln Gly	Leu Phe Arg Asn Pro	Leu Ala Asp Pro Gly Leu
	100	105
Leu Gly Ile Ser Ser	Gly Ala Ala Leu Ala	Val Ala Leu Trp Val Val
	115	120
Leu Pro Leu Ala Leu	Pro Ala Leu Val Met	Leu Tyr Ala Pro Met Leu
	130	135
Ala Ala Phe Leu Gly	Ala Leu Ala Ala Thr	Gly Val Ile Phe Leu Leu
145	150	155
Ser Lys Gln His Asp	Thr Ser Leu Ser Arg	Leu Leu Leu Val Gly Ile
	165	170
Ala Ile Asn Ala Leu	Cys Gly Ala Ala Val	Gly Val Leu Ser Trp Val
	180	185
Ser Asn Asp Ala Gln	Leu Arg Gln Leu Ser	Leu Trp Gly Met Gly Ser
	195	200
Leu Gly Gln Ala Gln	Trp Ser Thr Leu Leu	Ala Val Thr Ser Leu Met
	210	215
Val Pro Ala Ala Leu	Ala Ile Trp Arg Cys	Ala Ser Thr Leu Asn Leu
225	230	235
Leu Gln Leu Gly Glu	Glu Glu Glu Ala His	Tyr Leu Gly Val Asp Val Ala
	245	250
Leu Val Gln Arg Ile	Leu Leu Leu Cys Ser	Ala Leu Leu Val Ala Ala
	260	265
Ala Val Ala Val Ser	Gly Val Ile Gly Phe	Val Gly Leu Val Val Pro
	275	280
His Leu Met Arg Met	Trp Leu Gly Ala Asp	His Arg Ala Thr Leu Pro
	290	295
Gly Thr Val Leu Ala	Gly Ala Leu Leu Leu	Leu Val Ala Asp Thr Val
305	310	315
Ala Arg Thr Met Val	Ala Pro Ala Glu Met	Pro Val Gly Leu Leu Thr
	325	330
Ser Ile Leu Gly Ala	Pro Trp Phe Leu Trp	Leu Ile Phe Arg Arg Gly
	340	345
Glu Gln His Gly		350
	355	

<210> 8639

<211> 392

<212> PRT

<213> Enterobacter cloacae

<400> 8639

Arg Asp Ala Val Tyr	Ile Pro Ile Ser	Leu Ala Gly Val His	Leu Arg
1	5	10	15
Lys Val Ser Phe Met	Val Asn Leu Arg	Gln Pro Arg Asp	Val Ala Gln
	20	25	30
Ile Leu Leu Ser Val	Leu Phe Leu Ala	Ile Met Ile Ile	Ala Cys Leu
	35	40	45
Trp Ile Val Arg Pro	Phe Val Leu Gly	Phe Ala Trp Ala	Ala Thr Val
	50	55	60
Val Val Ala Thr Trp	Pro Leu Leu Leu Arg	Leu Gln Lys Leu Leu	Phe
65	70	75	80
Gly Arg Arg Gly Leu	Ala Val Leu Val Met	Thr Leu Leu Leu	Phe Leu
	85	90	95
Leu Phe Ile Ile Pro	Ile Ala Leu Leu Val	Asn Ser Leu Val	Asp Ser
	100	105	110
Ser Gly Pro Val Ile	Arg Ala Val Thr	Ser Gly Asp Met	Thr Leu Pro

[illegible]

<213> Enterobacter cloacae

Ile	Phe	Asn	Phe	Ser	Asp	Ser	Phe	Pro	Ala	Leu	Asp	Asn	Pro	Met	Ile
1				5					10					15	
Pro	Ile	Asp	Ser	Gly	Lys	Asn	Leu	Arg	Asn	Lys	Ala	Ala	Asn	Arg	Lys
			20					25					30		
Met	Lys	Ser	Thr	Phe	Gln	Glu	Asn	Gln	Lys	His	His	Phe	Ile	Leu	Asn
		35					40					45			
Ser	Asp	Lys	Phe	Phe	Ala	Val	Lys	Leu	Thr	Phe	Leu	Ile	Tyr	Ala	Phe
	50					55					60				
Arg	Gln	Leu	Arg	Thr	Leu	Phe	Arg	Val	Asp	Lys	Met	Asp	Asn	Ala	Val
65				70						75					80
Asp	Arg	His	Val	Phe	Tyr	Ile	Ser	Asp	Gly	Thr	Ala	Ile	Thr	Ala	Glu
			85						90					95	
Val	Leu	Gly	His	Ala	Val	Met	Ser	Gln	Phe	Pro	Val	Ser	Ile	Asn	Ser
			100					105					110		
Ile	Thr	Leu	Pro	Phe	Val	Glu	Asn	Glu	Ser	Arg	Ala	Lys	Ala	Val	Lys
		115					120					125			
Asp	Gln	Ile	Asp	Ala	Ile	Tyr	Gln	Gln	Thr	Gly	Val	Arg	Pro	Leu	Val
	130					135					140				
Phe	Tyr	Ser	Ile	Val	Ile	Pro	Glu	Ile	Arg	Asn	Ile	Ile	Leu	Gln	Ser

145					150					155				160	
Glu	Gly	Phe	Cys	Gln	Asp	Ile	Val	Gln	Ala	Leu	Val	Ala	Pro	Leu	Gln
				165					170					175	
Ser	Glu	Leu	Lys	Leu	Asp	Pro	Thr	Pro	Ile	Ala	His	Arg	Thr	His	Gly
			180					185					190		
Leu	Asn	Pro	Gly	Asn	Leu	Thr	Lys	Tyr	Asp	Ala	Arg	Ile	Ala	Ala	Ile
		195					200					205			
Asp	Tyr	Thr	Leu	Ala	His	Asp	Asp	Gly	Ile	Ser	Leu	Arg	Asn	Leu	Asp
	210					215					220				
Gln	Ala	Gln	Val	Ile	Leu	Leu	Gly	Val	Ser	Arg	Cys	Gly	Lys	Thr	Pro
225					230					235					240
Thr	Ser	Leu	Tyr	Leu	Ala	Met	Gln	Phe	Gly	Ile	Arg	Ala	Ala	Asn	Tyr
				245					250					255	
Pro	Phe	Ile	Ala	Asp	Asp	Met	Asp	Asn	Leu	Val	Leu	Pro	Ala	Ala	Leu
			260					265					270		
Lys	Pro	Leu	Gln	His	Lys	Leu	Phe	Gly	Leu	Thr	Ile	Asn	Pro	Glu	Arg
	275						280					285			
Leu	Ala	Ala	Ile	Arg	Glu	Glu	Arg	Arg	Glu	Asn	Ser	Arg	Tyr	Ala	Ser
	290					295					300				
Met	Arg	Gln	Cys	Arg	Met	Glu	Val	Ser	Glu	Val	Glu	Ala	Leu	Tyr	Arg
305					310					315					320
Lys	Asn	Gln	Ile	Pro	Trp	Leu	Asn	Ser	Thr	Asn	Tyr	Ser	Val	Glu	Glu
				325					330					335	
Ile	Ala	Thr	Lys	Ile	Leu	Asp	Ile	Met	Gly	Leu	Asn	Arg	Arg	Met	Tyr
			340					345					350		

<210> 8641

<211> 357

<212> PRT

<213> Enterobacter cloacae

<400> 8641

Ser	Lys	Lys	Phe	Leu	Arg	His	Ser	Met	Asn	Lys	Thr	Asp	Glu	Leu	Arg
1				5					10					15	
Thr	Ala	Arg	Ile	Asp	Ser	Leu	Val	Thr	Pro	Ala	Glu	Leu	Ala	Arg	Leu
			20					25					30		
His	Pro	Val	Ser	Ala	Glu	Val	Ala	Asp	His	Val	Thr	Ala	Ser	Arg	Arg
		35					40				45				
Arg	Ile	Glu	Lys	Ile	Leu	Asn	Gly	Glu	Asp	Lys	Arg	Leu	Leu	Val	Val
	50					55				60					
Ile	Gly	Pro	Cys	Ser	Ile	His	Asp	Leu	Asp	Ala	Ala	Met	Asp	Tyr	Ala
65					70					75					80
Gln	Arg	Leu	Gln	Thr	Leu	Arg	Gly	Thr	Tyr	Gln	Asp	Arg	Leu	Glu	Ile
				85					90					95	
Val	Met	Arg	Thr	Tyr	Phe	Glu	Lys	Pro	Arg	Thr	Val	Val	Gly	Trp	Lys
			100					105					110		
Gly	Leu	Ile	Ser	Asp	Pro	Asp	Leu	Asn	Gly	Ser	Tyr	Arg	Val	Asn	His
		115					120					125			
Gly	Ile	Ala	Leu	Ala	Arg	Lys	Leu	Leu	Leu	Gln	Val	Asn	Lys	Leu	Gly
	130					135					140				
Val	Pro	Thr	Ala	Thr	Glu	Phe	Leu	Asp	Met	Val	Thr	Gly	Gln	Phe	Ile
145					150					155					160
Ala	Asp	Leu	Ile	Ser	Trp	Gly	Ala	Ile	Gly	Ala	Arg	Thr	Thr	Glu	Ser
				165					170					175	
Gln	Ile	His	Arg	Glu	Met	Ala	Ser	Ala	Leu	Ser	Cys	Pro	Val	Gly	Phe
			180					185					190		
Lys	Asn	Gly	Thr	Asp	Gly	Asn	Thr	Arg	Ile	Ala	Val	Asp	Ala	Ile	Arg
	195						200					205			
Ala	Ser	Arg	Ala	Ser	His	Met	Phe	Leu	Ser	Pro	Asp	Lys	Asn	Gly	Gln

210	215	220
Met Thr Ile Tyr Gln	Thr Ser Gly Asn Pro Phe Gly His Ile Ile Met	
225	230	235
Arg Gly Gly Lys Lys	Pro Asn Tyr His Ala Glu Asp Ile Ala Ala Ala	240
	245	250
Cys Glu Thr Leu Ala	Glu Phe Asp Leu Pro Glu His Leu Val Val Asp	255
	260	265
Phe Ser His Gly Asn	Cys Gln Lys Gln His Arg Arg Gln Leu Asp Val	270
	275	280
Cys Glu Glu Val Cys	Gln Gln Ile Arg Ser Gly Ser Thr Ala Ile Ala	285
	290	295
Gly Ile Met Ala Glu	Ser Phe Ile Lys Glu Gly Thr Gln Lys Ile Val	300
	305	310
Ala Gly Gln Gln Met	Val Tyr Gly Gln Ser Ile Thr Asp Pro Cys Leu	315
	325	330
Ser Trp Glu Asp Ser	Glu Arg Leu Leu Glu Met Leu Ala Ser Ala Val	335
	340	345
Asp Ser Arg Phe		350
	355	

<210> 8642

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 8642

Arg Pro Asp Ala Gly	Arg Ala Gly Gly Met Lys Asn Trp Phe Ala Leu
1	5 10 15
Leu Cys Ala Leu Pro	Leu Val Ala Val Ala Ala Pro Glu Arg Ile Val
	20 25 30
Ala Leu Gly Gly Asp	Val Thr Glu Ile Val Tyr Ala Leu Gly Ala Glu
	35 40 45
Ser Ser Leu Val Ala	Arg Asp Ser Thr Ser Gln Trp Pro Gln Ala Thr
	50 55 60
Asn Ala Leu Pro Asp	Val Gly Tyr Leu Arg Gln Leu Asn Ala Glu Gly
	65 70 75
Ile Leu Ser Val Arg	Pro Thr Leu Val Leu Ala Ser Asp Gln Ala Gln
	85 90 95
Pro Ser Leu Ala Leu	Lys Gln Val Glu Gln Ser His Val Arg Val Val
	100 105 110
Thr Val Pro Gly Thr	Pro Asp Leu Arg Ala Ile Asp Glu Lys Val Arg
	115 120 125
Val Ile Ala Gln Ala	Thr His His Glu Ala Gln Gly Glu Thr Leu Arg
	130 135 140
Ser Ser Leu Arg Gln	Ala Leu Ala Ala Leu Pro Ser Met Pro Leu Asn
	145 150 155
Lys Arg Val Leu Phe	Ile Leu Ser His Gly Met Thr Ala Met Ala
	165 170 175
Ala Gly Gln Gln Thr	Gly Ala Asp Ala Ala Ile Arg Ala Ala Gly Leu
	180 185 190
Gln Asn Ala Met Gln	Gly Phe Thr Arg Tyr Gln Pro Leu Ser Gln Glu
	195 200 205
Gly Val Met Ala Ser	Gln Pro Asp Leu Val Val Ile Ser Gln Glu Gly
	210 215 220
Leu Asn Ala Leu Gly	Gly Glu Glu Asn Leu Trp Lys Leu Pro Gly Leu
	225 230 235
Ala Gln Thr Pro Ala	Gly Arg Ser Lys Gln Val Leu Ala Ile Asp Asp
	245 250 255
Met Ala Leu Leu Gly	Phe Ser Val Arg Thr Pro Lys Ala Ile Gln Gln
	260 265 270
Leu Arg Ala Arg Ala	Glu Gln Leu Pro

275

280

<210> 8643

<211> 324

<212> PRT

<213> Enterobacter cloacae

<400> 8643

Cys Ala Cys Gly Trp Ala Pro Ile Thr Gly Gln Pro Ser Pro Ala Arg
 1 5 10 15
 Tyr Ser Arg Ala Leu Tyr Cys Cys Trp Trp Arg Ile Arg Ser Arg Ala
 20 25 30
 Pro Trp Ser Pro Arg Gln Lys Cys Arg Ser Ala Cys Ser Pro Val Ser
 35 40 45
 Leu Ala Leu Pro Gly Ser Tyr Gly Ser Phe Phe Val Val Glu Asn Ser
 50 55 60
 Met Ala Glu Arg Tyr Thr Ala Glu Asn Leu Thr Phe Thr Arg Ser Gly
 65 70 75 80
 Arg Thr Leu Thr Asp Asn Val Ser Leu Ser Leu Ser Gln Gly Glu Leu
 85 90 95
 Val Thr Leu Ile Gly Pro Asn Gly Ala Gly Lys Ser Thr Leu Leu Arg
 100 105 110
 Leu Leu Thr Gly Tyr Leu Lys Pro Asp Ser Gly Gly Cys Ser Leu Ala
 115 120 125
 Gly Lys Ala Leu Asp Glu Trp His Pro Gln Val Leu Ser Arg Tyr Arg
 130 135 140
 Ala Val Met Arg Gln Gln Ser Gln Pro Glu Phe Asp Trp Gln Val Glu
 145 150 155 160
 Glu Ile Val Gly Met Gly Arg Ala Pro Trp Thr Arg His Pro Glu Pro
 165 170 175
 Ser Ile Val Arg Glu Val Leu Gln Leu Thr Gly Cys Leu Pro Leu Ala
 180 185 190
 Gly Arg Arg Tyr His Ala Leu Ser Gly Gly Glu Gln Gln Arg Val Gln
 195 200 205
 Leu Ala Arg Ala Leu Ala Gln Leu Trp Arg Asp Gly Thr Pro Arg Gly
 210 215 220
 Trp Leu Phe Leu Asp Glu Pro Thr Ser Ala Leu Asp Leu Tyr His Gln
 225 230 235 240
 Gln His Leu Leu Arg Leu Leu Lys Ser Leu Thr Arg Gln Gly His Leu
 245 250 255
 His Ala Cys Val Val Leu His Asp Leu Asn Leu Ala Ala Leu Trp Ser
 260 265 270
 Asp Arg Ile Leu Leu Leu His Asn Gly Arg Ile Val Ser Gln Gly Ile
 275 280 285
 Pro Glu Thr Val Leu Gln Ala Asp Ala Leu Ala Arg Trp Tyr Gly Ala
 290 295 300
 Gln Val His Val Gly Arg His Pro Ala His Ala Ala Pro Gln Val Phe
 305 310 315 320
 Leu Ala Pro

<210> 8644

<211> 357

<212> PRT

<213> Enterobacter cloacae

<400> 8644

Ala Ser Arg Trp Arg Leu Phe Leu Cys Leu Lys Leu Arg Glu Tyr Val
 1 5 10 15
 Gln Gln Phe Gly Val Cys Thr Asp Ile Met Arg Lys Thr Met Ser His
 20 25 30

Leu Ala Glu Leu Val Ala Ser Ala Thr Ala Ala Ile Asn Gln Ala Ser
 35 40 45
 Asp Val Ala Ala Leu Asp Asn Val Arg Val Glu Tyr Leu Gly Lys Lys
 50 55 60
 Gly His Leu Thr Leu Gln Met Thr Thr Leu Arg Glu Leu Pro Ala Glu
 65 70 75 80
 Glu Arg Pro Ala Ala Gly Ala Val Ile Asn Glu Ala Lys Glu Gln Val
 85 90 95
 Gln Gln Ala Leu Asn Ala Arg Lys Ala Glu Leu Glu Ser Ala Val Leu
 100 105 110
 Asn Ala Arg Leu Ala Ala Glu Thr Ile Asp Val Ser Leu Pro Gly Arg
 115 120 125
 Arg Ile Glu Asn Gly Gly Leu His Pro Val Thr Arg Thr Ile Asp Arg
 130 135 140
 Ile Glu Ser Phe Phe Gly Glu Leu Gly Phe Thr Val Ala Thr Gly Pro
 145 150 155 160
 Glu Ile Glu Asp Asp Tyr His Asn Phe Asp Ala Leu Asn Ile Pro Gly
 165 170 175
 His His Pro Ala Arg Ala Asp His Asp Thr Phe Trp Phe Asp Ala Thr
 180 185 190
 Arg Leu Leu Arg Thr Gln Thr Ser Gly Val Gln Ile Arg Thr Met Lys
 195 200 205
 Glu Gln Glu Pro Pro Ile Arg Ile Ile Ala Pro Gly Arg Val Tyr Arg
 210 215 220
 Asn Asp Tyr Asp Gln Thr His Thr Pro Met Phe His Gln Met Glu Gly
 225 230 235 240
 Leu Ile Val Asp Lys Asn Ile Ser Phe Thr Asn Leu Lys Gly Thr Leu
 245 250 255
 His Asp Phe Leu Asn Asn Phe Phe Glu Glu Asp Leu Gln Val Arg Phe
 260 265 270
 Arg Pro Ser Tyr Phe Pro Phe Thr Glu Pro Ser Ala Glu Val Asp Val
 275 280 285
 Met Gly Lys Asn Gly Lys Trp Leu Glu Val Leu Gly Cys Gly Met Val
 290 295 300
 His Pro Asn Val Leu Arg Asn Val Gly Ile Asp Pro Glu Val Tyr Ser
 305 310 315 320
 Gly Phe Ala Phe Gly Met Gly Met Glu Arg Leu Thr Met Leu Arg Tyr
 325 330 335
 Gly Val Thr Asp Leu Arg Ala Phe Phe Glu Asn Asp Leu Arg Phe Leu
 340 345 350
 Lys Gln Phe Lys
 355

<210> 8645

<211> 358

<212> PRT

<213> Enterobacter cloacae

<400> 8645

Leu Lys Arg Pro Leu Thr Arg Pro Phe Phe Phe Ala Leu Phe Ala Lys
 1 5 10 15
 Pro Ala Val Lys Ser Met Ile Ser Gln Pro Asp Asn Leu Ser Phe Met
 20 25 30
 Leu Asp Leu Ala Arg Leu Gln His Arg Ser Asp Leu Arg Arg Leu Cys
 35 40 45
 Leu Leu Gly Val Leu Leu Ile Val Ser Thr Thr Val Ser Leu Cys Ala
 50 55 60
 Gly Asp Arg Trp Leu Gly Pro Glu Ser Trp Phe Thr Pro Glu Gly Gln
 65 70 75 80
 Leu Phe Val Trp Gln Ile Arg Leu Pro Arg Thr Leu Ala Val Leu Leu
 85 90 95

Val Gly Ala Ala Leu Ala Leu Cys Gly Thr Ile Met Gln Ala Leu Phe
 100 105 110
 Glu Asn Pro Leu Ala Glu Pro Gly Leu Leu Gly Val Ser Asn Gly Ala
 115 120 125
 Gly Val Gly Leu Ile Ala Ala Val Met Leu Gly Gly Gly Glu Leu Ser
 130 135 140
 Gly Trp Gly Ile Ser Leu Ser Ala Ile Leu Gly Ala Leu Leu Ile Thr
 145 150 155 160
 Leu Ile Leu Leu Arg Phe Ala Arg Arg His Leu Ser Thr Ser Arg Leu
 165 170 175
 Leu Leu Ala Gly Val Ala Leu Gly Ile Ile Cys Ser Ala Leu Met Thr
 180 185 190
 Trp Ala Val Tyr Phe Ser Thr Ser Phe Asp Leu Arg Gln Leu Met Tyr
 195 200 205
 Trp Met Met Gly Gly Phe Gly Gly Val Asp Trp Arg Gln Gly Trp Leu
 210 215 220
 Met Val Leu Leu Ile Pro Val Ile Leu Trp Met Val Phe Gln Ala Gln
 225 230 235 240
 Pro Leu Asn Ile Leu Ala Leu Gly Glu Thr Ser Ala Arg Gln Leu Gly
 245 250 255
 Met Pro Ile Gly Phe Trp Arg Asn Val Leu Val Ile Ala Ile Gly Trp
 260 265 270
 Met Val Gly Val Ser Val Ala Leu Ala Gly Ala Ile Gly Phe Ile Gly
 275 280 285
 Leu Val Ile Pro His Met Leu Arg Leu Cys Gly Ile Thr Asp His Arg
 290 295 300
 Thr Leu Leu Pro Ala Ser Ala Val Ala Gly Ala Ala Thr Leu Leu Val
 305 310 315 320
 Ala Asp Ile Ile Ala Arg Leu Ala Leu Thr Ala Ala Glu Leu Pro Ile
 325 330 335
 Gly Val Val Thr Ala Thr Leu Gly Ala Pro Val Phe Ile Trp Leu Leu
 340 345 350
 Leu Lys Ala Gly Arg
 355

<210> 8646

<211> 187

<212> PRT

<213> Enterobacter cloacae

<400> 8646

Gly Asn Ala Met Gln Ser Asp Ile Leu Asn Thr Glu Val Thr Thr Ile
 1 5 10 15
 Asp Gly Glu Lys Thr Thr Leu Val Gly Tyr Lys Gly Lys Val Leu Leu
 20 25 30
 Ile Val Asn Val Ala Ser Lys Cys Gly Leu Thr Pro Gln Tyr Glu Gln
 35 40 45
 Leu Glu Asn Ile His Lys Ala Trp Glu Lys Asp Gly Phe Thr Val Leu
 50 55 60
 Gly Phe Pro Cys Asn Gln Phe Leu Gly Gln Glu Pro Gly Ser Glu Glu
 65 70 75 80
 Glu Ile Lys Thr Phe Cys Ser Thr Thr Tyr Gly Val Thr Phe Pro Met
 85 90 95
 Phe Ser Lys Ile Asp Val Asn Gly Glu Asn Arg His Pro Leu Tyr Ala
 100 105 110
 Lys Leu Val Ala Ala Ala Pro Thr Ala Val Ala Pro Glu Ser Gly
 115 120 125
 Phe Tyr Glu Arg Met Ala Ser Lys Gly Arg Ala Pro Leu Tyr Pro Asp
 130 135 140
 Asp Ile Leu Trp Asn Phe Glu Lys Phe Leu Ile Gly Arg Asp Gly Gln
 145 150 155 160

Val	Val	Gln	Arg	Phe	Ser	Pro	Asp	Met	Thr	Pro	Glu	Asp	Pro	Ile	Val
				165					170					175	
Met	Glu	Ser	Ile	Lys	Leu	Ala	Leu	Ala	Lys						
			180					185							

<210> 8647

<211> 811

<212> PRT

<213> Enterobacter cloacae

<400> 8647

Ile	Arg	Ser	Gln	Val	Phe	Leu	Thr	Pro	Ile	Lys	Tyr	His	Lys	Arg	Ile
1				5					10					15	
Val	Ser	Met	Ser	Asn	Asn	Gly	Ser	Ser	Pro	Leu	Val	Leu	Trp	Tyr	Asn
			20					25					30		
Gln	Leu	Gly	Met	Asn	Asp	Val	Asp	Arg	Val	Gly	Gly	Lys	Asn	Ala	Ser
		35					40					45			
Leu	Gly	Glu	Met	Ile	Thr	Asn	Leu	Ser	Gly	Met	Gly	Val	Ser	Val	Pro
		50				55					60				
Asn	Gly	Phe	Ala	Thr	Thr	Ala	Asp	Ala	Phe	Asn	Leu	Phe	Leu	Asp	Gln
65				70					75						80
Ser	Gly	Val	Asn	Gln	Arg	Ile	Tyr	Asp	Leu	Leu	Asp	Lys	Thr	Asp	Ile
			85					90						95	
Asp	Asp	Val	Thr	Glu	Leu	Ala	Lys	Ala	Gly	Ala	Gln	Ile	Arg	Gln	Trp
			100					105					110		
Ile	Ile	Asp	Thr	Pro	Phe	Gln	Pro	Glu	Leu	Glu	Lys	Ala	Ile	His	Asp
		115					120					125			
Ala	Tyr	Asn	Gln	Leu	Ser	Ala	Asp	Asp	Ala	Gln	Ala	Ser	Phe	Ala	Val
		130				135					140				
Arg	Ser	Ser	Ala	Thr	Ala	Glu	Asp	Met	Pro	Asp	Ala	Ser	Phe	Ala	Gly
145				150						155					160
Gln	Gln	Glu	Thr	Phe	Leu	Asn	Val	Gln	Gly	Tyr	Glu	Ala	Val	Leu	Val
				165					170					175	
Ala	Val	Lys	His	Val	Phe	Ala	Ser	Leu	Phe	Asn	Asp	Arg	Ala	Ile	Ser
			180					185					190		
Tyr	Arg	Val	His	Gln	Gly	Tyr	Asp	His	Arg	Gly	Val	Ala	Leu	Ser	Ala
		195					200					205			
Gly	Val	Gln	Arg	Met	Val	Arg	Ser	Asp	Val	Gly	Ser	Ser	Gly	Val	Met
		210				215					220				
Phe	Ser	Ile	Asp	Thr	Glu	Ser	Gly	Phe	Asp	Gln	Val	Val	Phe	Ile	Thr
225				230						235					240
Ser	Ala	Trp	Gly	Leu	Gly	Glu	Met	Val	Val	Gln	Gly	Ala	Val	Asn	Pro
				245					250					255	
Asp	Glu	Phe	Tyr	Val	His	Lys	Pro	Thr	Leu	Ala	Ala	Asn	Arg	Pro	Ala
			260					265					270		
Val	Val	Arg	Arg	Thr	Met	Gly	Ser	Lys	Lys	Ile	Arg	Met	Ile	Tyr	Ala
		275					280					285			
Pro	Thr	Gln	Glu	His	Gly	Lys	Gln	Val	Thr	Ile	Glu	Asp	Val	Pro	Gln
		290				295					300				
Glu	Gln	Arg	Asp	Arg	Phe	Ser	Leu	Thr	Asp	Ala	Glu	Val	Glu	Glu	Leu
305					310					315					320
Ala	Lys	Gln	Ala	Val	Gln	Ile	Glu	Lys	His	Tyr	Gly	Arg	Pro	Met	Asp
				325					330					335	
Ile	Glu	Trp	Ala	Lys	Asp	Gly	His	Thr	Gly	Lys	Leu	Phe	Ile	Val	Gln
			340					345					350		
Ala	Arg	Pro	Glu	Thr	Val	Arg	Ser	Arg	Gly	Gln	Val	Met	Glu	Arg	Tyr
		355					360					365			
Thr	Leu	His	Ala	Gln	Gly	Lys	Ile	Val	Ala	Glu	Gly	Arg	Ala	Ile	Gly
	370					375					380				
His	Arg	Ile	Gly	Ala	Gly	Pro	Val	Lys	Val	Ile	His	Asp	Ile	Ser	Glu
385					390					395					400

Met Asn Arg Ile Gln Pro Gly Asp Val Leu Val Thr Asp Met Thr Asp
 405 410 415
 Pro Asp Trp Glu Pro Ile Met Lys Lys Ala Ala Ala Ile Val Thr Asn
 420 425 430
 Arg Gly Gly Arg Thr Cys His Ala Ala Ile Ile Ala Arg Glu Leu Gly
 435 440 445
 Ile Pro Ala Val Val Gly Cys Gly Asp Ala Thr Glu Arg Met Lys Asp
 450 455 460
 Asp Gln Asn Val Thr Val Ser Cys Ala Glu Gly Asp Thr Gly Tyr Val
 465 470 475 480
 Tyr Ala Asp Ile Leu Asp Phe Ser Val Lys Ser Ser Ser Val Asp Thr
 485 490 495
 Met Pro Asp Leu Pro Leu Lys Ile Met Met Asn Val Gly Asn Pro Asp
 500 505 510
 Arg Ala Phe Asp Phe Ala Cys Leu Pro Asn Glu Gly Val Gly Leu Ala
 515 520 525
 Arg Leu Glu Phe Ile Ile Asn Arg Met Ile Gly Val His Pro Arg Ala
 530 535 540
 Leu Leu Glu Phe Asp Asp Gln Asp Ala Lys Leu Gln Asn Glu Ile Arg
 545 550 555 560
 Glu Met Met Lys Gly Tyr Asp Ser Pro Arg Glu Phe Tyr Val Gly Arg
 565 570 575
 Leu Thr Glu Gly Ile Ala Thr Leu Gly Ala Ala Phe Tyr Pro Lys Arg
 580 585 590
 Val Ile Val Arg Leu Ser Asp Phe Lys Ser Asn Glu Tyr Ala Asn Leu
 595 600 605
 Val Gly Gly Glu Arg Tyr Glu Pro Glu Glu Glu Asn Pro Met Leu Gly
 610 615 620
 Phe Arg Gly Ala Gly Arg Tyr Val Ser Glu Ser Phe Arg Asp Cys Phe
 625 630 635 640
 Ala Leu Glu Cys Glu Ala Val Lys Arg Val Arg Asn Asp Met Gly Leu
 645 650 655
 Thr Asn Val Glu Ile Met Ile Pro Phe Val Arg Thr Val Asp Gln Ala
 660 665 670
 Lys Ala Val Val Asp Glu Leu Ala Arg Gln Gly Leu Lys Arg Gly Glu
 675 680 685
 Asn Gly Leu Lys Ile Ile Met Met Cys Glu Ile Pro Ser Asn Ala Leu
 690 695 700
 Leu Ala Glu Gln Phe Leu Glu His Phe Asp Gly Phe Ser Ile Gly Ser
 705 710 715 720
 Asn Asp Met Thr Gln Leu Ala Leu Gly Leu Asp Arg Asp Ser Gly Val
 725 730 735
 Val Ser Glu Leu Phe Asp Glu Arg Asn Glu Ala Val Lys Ala Leu Leu
 740 745 750
 Ser Met Ala Ile Arg Ala Ala Lys Lys Gln Gly Lys Tyr Val Gly Ile
 755 760 765
 Cys Gly Gln Gly Pro Ser Asp His Glu Asp Phe Ala Trp Leu Met
 770 775 780
 Asp Glu Gly Ile Asp Ser Leu Ser Leu Asn Pro Asp Thr Val Val Gln
 785 790 795 800
 Thr Trp Leu Ser Leu Ala Glu Leu Asn Lys
 805 810

<210> 8648

<211> 495

<212> PRT

<213> Enterobacter cloacae

<400> 8648

Tyr Leu Ser Leu Thr Ala Tyr Ile Arg Arg Asp Asp Ala Arg Leu Val
 1 5 10 15

Glu	Ile	Arg	Phe	Asn	Leu	Ile	Lys	Arg	Gln	Ile	Thr	Met	Thr	Ile	Ser
			20					25					30		
Ser	Val	Leu	Arg	Thr	Lys	Asp	Lys	Ile	Gly	Tyr	Gly	Leu	Gly	Asp	Met
		35					40					45			
Ala	Ser	Ala	Leu	Val	Trp	Gln	Thr	Ala	Thr	Leu	Phe	Leu	Ala	Tyr	Phe
	50					55					60				
Tyr	Thr	Asp	Val	Phe	Gly	Leu	Pro	Ala	Ala	Ile	Met	Gly	Thr	Met	Phe
65					70					75					80
Leu	Val	Val	Arg	Val	Val	Asp	Ala	Phe	Val	Asp	Pro	Cys	Ile	Gly	Ala
				85					90					95	
Leu	Val	Asp	Arg	Thr	Gln	Thr	Arg	His	Gly	Arg	Phe	Arg	Pro	Trp	Leu
			100					105					110		
Leu	Trp	Phe	Ala	Ile	Pro	Phe	Gly	Val	Ser	Cys	Leu	Ile	Thr	Phe	Tyr
		115					120					125			
Val	Pro	Asp	Ala	Gly	Gln	Thr	Ala	Lys	Ile	Val	Tyr	Ala	Cys	Val	Thr
	130					135					140				
Tyr	Ala	Ile	Leu	Ser	Leu	Ile	Tyr	Ser	Ala	Ile	Asn	Val	Pro	Tyr	Cys
145					150					155					160
Ala	Met	Pro	Gly	Ala	Leu	Thr	Leu	Asp	Pro	Arg	Glu	Arg	His	Ser	Leu
				165					170					175	
Gln	Ser	Trp	Arg	Phe	Gly	Leu	Ser	Phe	Ile	Gly	Gly	Leu	Ile	Val	Thr
			180					185					190		
Val	Ile	Ala	Leu	Pro	Leu	Val	Ser	Leu	Leu	Gly	Gln	Gly	Asn	Val	Gln
		195					200					205			
Lys	Gly	Tyr	Phe	Tyr	Ala	Met	Ser	Leu	Met	Gly	Leu	Leu	Gly	Ile	Val
	210					215					220				
Leu	Phe	Phe	Cys	Cys	Phe	Phe	Met	Thr	Arg	Glu	Arg	Tyr	Ser	Pro	Arg
225					230					235					240
Asn	Asp	Thr	Ser	Gly	Ser	Met	Leu	Thr	Asp	Leu	Lys	Leu	Leu	Ala	Ala
				245					250					255	
Asn	Ser	Gln	Trp	Arg	Ile	Val	Phe	Leu	Phe	Asn	Ile	Leu	Leu	Leu	Thr
		260					265						270		
Ala	Val	Val	Thr	Arg	Gly	Ser	Ala	Thr	Met	Tyr	Tyr	Val	Asn	Tyr	Val
		275					280					285			
Leu	Leu	Arg	Pro	Glu	Leu	Val	Phe	Ala	Phe	Ile	Val	Ser	Gly	Met	Val
	290					295					300				
Ala	Ser	Leu	Ser	Gly	Ala	Leu	Leu	Ser	Glu	Arg	Leu	Leu	Gly	Lys	Phe
305					310					315					320
Asp	Arg	Val	Arg	Ala	Tyr	Gln	Trp	Thr	Ile	Ile	Ser	Phe	Val	Ile	Phe
				325					330					335	
Gly	Ala	Leu	Ile	Phe	Phe	Ile	Pro	Pro	Ser	Gln	Val	Trp	Leu	Ile	Phe
		340						345					350		
Gly	Leu	Asn	Ile	Val	Phe	Ser	Phe	Ile	Gln	Asn	Leu	Thr	Thr	Pro	Leu
		355					360					365			
Gln	Trp	Thr	Met	Phe	Ser	Asp	Val	Val	Asp	Tyr	Glu	Glu	His	Arg	Ser
	370					375					380				
Gly	Arg	Arg	Leu	Asp	Gly	Leu	Val	Phe	Ser	Thr	Ala	Leu	Phe	Ala	Ile
385					390					395					400
Lys	Phe	Gly	Leu	Ala	Leu	Gly	Gly	Ala	Val	Val	Gly	Trp	Val	Leu	Gly
				405					410					415	
Met	Val	Asp	Tyr	Ala	Pro	Gly	Gln	Ala	Asn	Gln	Ala	Pro	His	Val	Leu
			420					425					430		
Ala	Thr	Ile	Asn	Ala	Leu	Phe	Thr	Leu	Ile	Pro	Cys	Val	Leu	Phe	Leu
		435					440					445			
Cys	Met	Val	Ala	Leu	Leu	Ala	Ile	Tyr	Lys	Leu	Asn	Ser	Arg	Leu	Val
	450					455					460				
Asp	Ser	Ile	Ala	Arg	Glu	Leu	Ala	Ser	Lys	Arg	Asp	Ser	Arg	Asn	Asp
465					470					475					480
Ala	Gly	Gln	Leu	Ser	Pro	Ala	Thr	Gln	Ser	Ala	Leu	Gln	Glu		
				485					490					495	

<210> 8649
 <211> 793
 <212> PRT
 <213> Enterobacter cloacae

<400> 8649

Thr	Met	Thr	Ala	Ile	Tyr	Lys	Asp	Ala	Gly	Arg	Pro	Val	His	Glu	Arg
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Val	Ala	Asp	Leu	Leu	Ala	Arg	Met	Thr	Pro	Glu	Glu	Lys	Phe	Ala	Gln
		20						25					30		
Met	His	Ala	Tyr	Trp	Leu	Ile	Leu	Asp	Glu	His	Gly	Asn	His	Arg	Glu
	35						40					45			
Arg	Ser	Asp	Leu	Ser	Asp	Glu	Phe	Ala	Gly	Val	Ser	Glu	Gln	Ala	Ser
	50					55					60				
Leu	Asn	Glu	Arg	Leu	Lys	Leu	Gly	Val	Gly	Gln	Ile	Thr	Arg	Pro	Leu
65					70				75					80	
Gly	Thr	His	Ile	Val	Asn	Ala	Lys	Thr	Gly	Val	Cys	Ala	Ala	Asn	Arg
			85						90					95	
Leu	Gln	Arg	Met	Met	Met	Glu	Glu	Thr	Arg	Leu	Gly	Ile	Pro	Ala	Leu
			100					105					110		
Phe	His	Glu	Glu	Cys	Leu	Val	Gly	Leu	Leu	Cys	Lys	Asp	Ala	Thr	Leu
	115						120					125			
Phe	Pro	Ser	Ser	Leu	Asn	Tyr	Gly	Ser	Thr	Trp	Asp	Pro	Ala	Leu	Val
	130					135					140				
Gln	Arg	Ala	Ala	Glu	Gln	Ile	Gly	Lys	Glu	Ala	Arg	Ser	Val	Gly	Cys
145					150					155				160	
Gln	Gln	Gly	Leu	Ala	Pro	Val	Leu	Asp	Val	Ser	Arg	Asp	Val	Arg	Trp
			165						170					175	
Gly	Arg	Thr	Glu	Glu	Thr	Phe	Gly	Glu	Asp	Pro	Trp	Leu	Val	Gly	Val
		180						185					190		
Met	Ala	Thr	Ala	Tyr	Val	Lys	Gly	Leu	Gln	Gly	Asp	Lys	Arg	Asp	Leu
		195					200					205			
Leu	Ala	Thr	Leu	Lys	His	Tyr	Val	Gly	His	Ser	Phe	Ser	Glu	Gly	Ala
	210					215					220				
Arg	Asn	His	Ala	Pro	Val	His	Leu	Gly	Phe	Ser	Glu	Leu	Asn	Asp	Thr
225					230					235				240	
Phe	Leu	Leu	Pro	Phe	Glu	Met	Ala	Val	Lys	Leu	Ala	Asn	Ala	Gly	Ser
			245						250					255	
Val	Met	Pro	Ala	Tyr	His	Asp	Ile	Asp	Asn	Gln	Pro	Gly	His	Ser	Asp
		260						265					270		
His	Phe	Leu	Leu	Thr	Thr	Val	Leu	Arg	Glu	Gln	Trp	Gly	Phe	Asp	Gly
	275						280					285			
Ile	Ile	Val	Ala	Asp	Tyr	Gly	Gly	Val	Ser	Leu	Leu	His	Gln	His	His
	290					295					300				
Gly	Ile	Ser	His	Asp	Pro	Ala	Glu	Ser	Ala	Ala	Leu	Ala	Phe	Asn	Ala
305					310				315					320	
Gly	Leu	Asp	Val	Glu	Leu	Pro	Lys	Asp	Asp	Cys	Ala	Arg	His	Leu	Ala
			325						330					335	
Glu	Ala	Val	Glu	Arg	Gly	Leu	Ile	Ser	Met	Ala	Lys	Val	Asp	Glu	Ile
		340						345					350		
Val	Ala	Arg	Val	Leu	Ser	Glu	Lys	Phe	Arg	Leu	Gly	Leu	Phe	Glu	Lys
		355					360					365			
Pro	Tyr	Ala	Ala	Glu	Asp	Gly	Ile	Asp	Leu	Gln	Asn	Glu	Ala	Thr	Arg
	370					375					380				
Gln	Val	Ala	Arg	Glu	Val	Ala	Thr	Lys	Ser	Ile	Thr	Leu	Leu	Glu	Asn
385					390					395				400	
Asn	Gly	Ile	Leu	Pro	Leu	Gly	Gly	Lys	Pro	Arg	Val	Ala	Val	Val	Gly
			405						410					415	
Pro	Thr	Ala	Asp	Asp	Pro	Leu	Ala	Leu	Leu	Ser	Gly	Tyr	Ser	Phe	Pro
		420						425					430		
Val	His	Leu	Ile	Ile	Ser	Asp	Met	Val	Glu	Glu	Thr	Ser	Gln	Val	Thr

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<210> 8650
<211> 760
<212> PRT
<213> Enterobacter cloacae
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<400> 8650															
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Cys	Gly	Gln	His	Pro	Asn	Ala	Asp	Lys	Leu	Arg	Val	Thr	Lys	Val	Asn
			20					25					30		
Val	Gly	Gly	Asp	Arg	Leu	Leu	Asp	Ile	Val	Cys	Gly	Ala	Pro	Asn	Cys
		35					40					45			
Arg	Gln	Gly	Leu	Lys	Val	Ala	Val	Ala	Thr	Val	Gly	Ala	Val	Leu	Pro
	50					55					60				
Gly	Asp	Phe	Lys	Ile	Lys	Ala	Ala	Lys	Leu	Arg	Gly	Glu	Pro	Ser	Glu

65					70					75					80
Gly	Met	Leu	Cys	Ser	Phe	Ser	Glu	Leu	Gly	Ile	Ser	Asp	Asp	His	Ser
				85					90					95	
Gly	Ile	Ile	Glu	Leu	Pro	Gln	Asp	Ala	Pro	Val	Gly	Thr	Asp	Ile	Arg
			100					105					110		
Glu	Tyr	Leu	Lys	Leu	Asp	Asp	Asn	Thr	Ile	Glu	Ile	Ser	Val	Thr	Pro
		115					120					125			
Asn	Arg	Ala	Asp	Cys	Leu	Gly	Ile	Ile	Gly	Val	Ala	Arg	Asp	Val	Ala
	130					135				140					
Val	Leu	Asn	Gln	Thr	Glu	Leu	Asn	Val	Pro	Glu	Ile	Ala	Pro	Val	Glu
145					150				155						160
Ala	Thr	Ile	Ser	Asp	Val	Leu	Pro	Ile	Gln	Val	Asp	Ala	Pro	Glu	Ala
				165					170					175	
Cys	Pro	Arg	Tyr	Leu	Gly	Arg	Val	Val	Lys	Gly	Ile	Asn	Val	Lys	Ala
			180				185						190		
Pro	Thr	Pro	Leu	Trp	Met	Lys	Glu	Lys	Leu	Arg	Arg	Cys	Gly	Ile	Arg
		195					200					205			
Ser	Ile	Asp	Ala	Val	Val	Asp	Val	Thr	Asn	Tyr	Val	Leu	Leu	Glu	Leu
	210					215					220				
Gly	Gln	Pro	Met	His	Ala	Phe	Asp	Lys	Asp	Arg	Ile	Glu	Gly	Gly	Ile
225					230				235						240
Val	Val	Arg	Met	Ala	Lys	Glu	Gly	Glu	Thr	Leu	Val	Leu	Leu	Asp	Gly
				245					250					255	
Ser	Glu	Ala	Lys	Leu	Asn	Ala	Asp	Thr	Leu	Val	Ile	Ala	Asp	His	Asn
			260				265					270			
Lys	Ala	Leu	Ala	Met	Gly	Gly	Ile	Phe	Gly	Gly	Glu	His	Ser	Gly	Val
	275					280					285				
Asn	Asp	Glu	Thr	Gln	Asn	Val	Leu	Leu	Glu	Cys	Ala	Phe	Phe	Ser	Pro
	290					295				300					
Leu	Ser	Ile	Thr	Gly	Arg	Ala	Arg	Arg	His	Gly	Leu	His	Thr	Asp	Ala
305					310					315					320
Ser	His	Arg	Tyr	Glu	Arg	Gly	Val	Asp	Pro	Ala	Leu	Gln	Tyr	Lys	Ala
				325				330						335	
Met	Glu	Arg	Ala	Thr	Arg	Leu	Leu	Ile	Asp	Ile	Cys	Gly	Gly	Glu	Ala
			340				345					350			
Gly	Pro	Val	Ile	Asp	Val	Thr	Asn	Glu	Ala	Thr	Leu	Pro	Lys	Arg	Ala
	355						360					365			
Thr	Ile	Thr	Leu	Arg	Arg	Ser	Lys	Leu	Asp	Arg	Leu	Ile	Gly	His	His
	370					375					380				
Val	Ala	Asp	Ala	Gln	Val	Thr	Asp	Ile	Leu	Thr	Arg	Leu	Gly	Cys	Glu
385				390					395						400
Val	Thr	Glu	Gly	Gln	Asp	Glu	Trp	Lys	Ala	Val	Ala	Pro	Ser	Trp	Arg
				405				410						415	
Phe	Asp	Met	Glu	Ile	Glu	Glu	Asp	Leu	Val	Glu	Glu	Val	Ala	Arg	Val
			420				425					430			
Tyr	Gly	Tyr	Asn	Asn	Ile	Pro	Asp	Glu	Pro	Val	Gln	Ala	Gly	Leu	Val
	435						440					445			
Met	Gly	Ser	His	Arg	Glu	Ala	Asp	Leu	Ser	Leu	Lys	Arg	Val	Lys	Thr
	450					455					460				
Met	Leu	Asn	Asp	Lys	Gly	Tyr	Gln	Glu	Val	Ile	Thr	Tyr	Ser	Phe	Val
465					470					475					480
Asp	Pro	Lys	Leu	Gln	Gln	Leu	Ile	His	Pro	Gly	Gln	Glu	Ala	Leu	Ile
				485				490						495	
Leu	Pro	Ser	Pro	Ile	Ser	Ser	Glu	Met	Ser	Ala	Met	Arg	Leu	Ser	Leu
			500				505						510		
Trp	Thr	Gly	Leu	Leu	Gly	Thr	Ile	Val	Tyr	Asn	Gln	Asn	Arg	Gln	Gln
	515						520					525			
Asn	Arg	Val	Arg	Ile	Phe	Glu	Ser	Gly	Leu	Arg	Phe	Val	Pro	Asp	Thr
	530				535						540				
Gln	Ala	Asn	Leu	Gly	Ile	Arg	Gln	Asp	Leu	Met	Leu	Ala	Gly	Ala	Ile
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<210> 8651
<211> 243
<212> PRT
<213> Enterobacter cloacae
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<400> 8651															
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Glu	Leu	Leu	Leu 20	Leu	Pro	Ala	Arg	Asp 25	Ser	Ala	Gly	Leu 30	Leu	Lys	Gly
Leu	Glu	Ile 35	Leu	Val	Asn	Phe	Thr 40	Gly	Val	Gly	Ala	Asp 45	Val	Arg	Ile
Pro	Thr 50	Glu	Leu	Val	Ile	Pro 55	His	Leu	Ser	Gln	Glu 60	Asp	Glu	Leu	Ala
Leu 65	Phe	Gln	Glu	Lys 70	Leu	Gln	Leu	Leu	Asp 75	Thr	Cys	Lys	Leu	Phe 80	Phe
Ile	Gln	His	Gln	Leu 85	Ile	Ala	Trp	Ile	Asn 90	Ile	Thr	Pro	Ala	Ile 95	Val
Glu	Phe	Leu	Leu 100	Thr	Asn	Glu	Asn	Ala 105	Val	Ser	Ile	Leu	Glu 110	Arg	Tyr
Pro	Phe	Leu 115	Glu	Phe	Thr	Val	Asn 120	Glu	Asn	Tyr	Pro	Gly 125	Leu	Asn	Asn
Gly	Lys 130	Asp	Asp	Pro	Cys	Leu 135	Ala	Arg	Met	Ala	Ile 140	His	Phe	Pro	Leu
Val 145	Leu	Ala	Asn	Phe 150	Gly	Ala	Gly	Ala	Ala	Ser 155	Leu	Lys	Pro	Val	Tyr
Asp	Gly	Leu	Phe 165	Lys	Arg	Val	Val	Leu	Asp 170	Lys	Asn	Phe	Ile	Gln 175	Gln
Arg	Val	Ser	Ala 180	Leu	Ser	Phe	Glu	Pro 185	Phe	Met	Arg	Ala	Ile 190	Leu	Trp
Gln	Ile	Ala 195	Pro	His	Cys	Gln	Ser 200	Val	Met	Val	Ser	Gly 205	Ile	Asp	Asp
His	Gly 210	Ile	Leu	Gln	Arg	Val 215	Leu	Thr	Phe	Asn	Phe 220	Gly	Ala	Met	Gln

Gly Ser Leu Trp Pro Ala Val Pro Ala Glu Arg Val Thr Thr Leu Val
 225 230 235 240
 Gln Gln

<210> 8652
 <211> 151
 <212> PRT
 <213> Enterobacter cloacae

<400> 8652
 Arg Arg Pro Pro Ser Ile Ala Gly Phe Thr Gly Asp Tyr Arg Met Ile
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 Trp Lys Arg Ala Val Thr Leu Glu Ala Leu Asn Ala Met Gly Ala Glu
 20 25 30
 Asn Met Val Gly Leu Leu Asp Ile Gln Phe Thr Arg Ile Gly Asp Asn
 35 40 45
 Glu Leu Glu Ala Thr Met Pro Val Asp Cys Arg Thr His Gln Pro Phe
 50 55 60
 Gly Leu Leu His Gly Gly Ala Ser Val Val Leu Ala Glu Thr Leu Gly
 65 70 75 80
 Ser Val Ala Gly Tyr Leu Cys Thr Glu Gly Glu Gln Lys Val Val Gly
 85 90 95
 Leu Glu Val Asn Ala Asn His Ile Arg Ser Val Arg Ser Gly Arg Val
 100 105 110
 Arg Gly Val Cys Arg Ala Leu His Ala Gly Ser Arg His Gln Val Trp
 115 120 125
 Gln Ile Asp Ile Leu Asp Glu Gln Asp Arg Leu Cys Cys Ser Ser Arg
 130 135 140
 Leu Thr Thr Ala Val Val
 145 150

<210> 8653
 <211> 104
 <212> PRT
 <213> Enterobacter cloacae

<400> 8653
 Gly Ile Glu Pro Met Ala Leu Thr Lys Ala Glu Met Ser Glu Tyr Leu
 1 5 10 15
 Phe Asp Lys Leu Gly Leu Ser Lys Arg Asp Ala Lys Glu Leu Val Glu
 20 25 30
 Leu Phe Phe Glu Glu Ile Arg Arg Ala Leu Glu Asn Gly Glu Gln Val
 35 40 45
 Lys Leu Ser Gly Phe Gly Asn Phe Asp Leu Arg Asp Lys Asn Gln Arg
 50 55 60
 Pro Gly Arg Asn Pro Lys Thr Gly Glu Asp Ile Pro Ile Thr Ala Arg
 65 70 75 80
 Arg Val Val Thr Phe Arg Pro Gly Gln Lys Leu Lys Ser Arg Val Glu
 85 90 95
 Asn Ala Thr Pro Lys Ala Glu
 100

<210> 8654
 <211> 271
 <212> PRT
 <213> Enterobacter cloacae

<400> 8654
 His Asp Ala Gly Arg Ser Tyr Arg Asp Gly Ile Asn Gln Ala Gly Ala
 1 5 10 15

<210> 8656
 <211> 528
 <212> PRT
 <213> Enterobacter cloacae

<400> 8656

His	Ser	Ile	Leu	Val	Gln	Cys	Arg	Glu	Ala	Cys	Gly	Leu	Pro	Ser	Arg
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Gln	Ser	Gly	Ser	Arg	Leu	Ser	Tyr	Ser	Asn	Asn	Pro	Phe	Leu	Arg	Pro
			20					25					30		
Cys	Leu	Arg	Pro	Gly	Lys	Pro	Ser	Thr	Leu	Lys	Ala	Gly	Gly	Leu	Met
		35					40					45			
Thr	Leu	Ser	Phe	Thr	Ala	His	Trp	His	Asp	Glu	Leu	Pro	Gly	Phe	Tyr
	50					55					60				
Thr	Ala	Leu	Lys	Pro	Thr	Pro	Leu	Gln	Asn	Ala	Arg	Leu	Ile	Trp	His
65					70				75					80	
Asn	Asp	Ala	Leu	Ala	Asp	Ser	Leu	Gly	Ile	Pro	Ser	Thr	Leu	Phe	Gln
				85					90					95	
Pro	Glu	Lys	Gly	Ala	Gly	Val	Trp	Gly	Gly	Glu	Thr	Leu	Leu	Pro	Gly
			100					105					110		
Met	Lys	Pro	Leu	Ala	Gln	Val	Tyr	Ser	Gly	His	Gln	Phe	Gly	Val	Trp
		115					120					125			
Ala	Gly	Gln	Leu	Gly	Asp	Gly	Arg	Gly	Ile	Leu	Leu	Gly	Glu	Gln	Val
	130					135					140				
Leu	Pro	Asn	Gly	Glu	Thr	Leu	Asp	Trp	His	Leu	Lys	Gly	Ala	Gly	Leu
145					150					155					160
Thr	Pro	Tyr	Ser	Arg	Met	Gly	Asp	Gly	Arg	Ala	Val	Leu	Arg	Ser	Thr
				165					170					175	
Ile	Arg	Glu	Gly	Leu	Ala	Ser	Glu	Ala	Met	His	Ala	Leu	Gly	Ile	Pro
		180					185						190		
Thr	Ser	Arg	Ala	Leu	Ser	Ile	Val	Thr	Ser	Asp	Thr	Pro	Val	Ala	Arg
		195					200					205			
Glu	Thr	Met	Glu	Gln	Gly	Ala	Met	Leu	Val	Arg	Val	Ala	Glu	Ser	His
	210					215					220				
Leu	Arg	Phe	Gly	His	Phe	Glu	His	Phe	Tyr	Tyr	Arg	Arg	Glu	Pro	Asp
225					230					235					240
Lys	Val	Arg	Gln	Leu	Ala	Asp	Tyr	Ala	Leu	Arg	Arg	His	Trp	Pro	His
				245					250					255	
Leu	Gln	Asn	Glu	Pro	Asp	Arg	Tyr	Val	Leu	Trp	Phe	Arg	Asp	Ile	Ala
		260						265					270		
Ala	Arg	Thr	Ala	Ala	Met	Ile	Ala	Arg	Trp	Gln	Ala	Val	Gly	Phe	Ala
		275					280					285			
His	Gly	Val	Met	Asn	Thr	Asp	Asn	Met	Ser	Leu	Leu	Gly	Leu	Thr	Phe
	290					295					300				
Asp	Tyr	Gly	Pro	Tyr	Gly	Phe	Leu	Asp	Asp	Tyr	Gln	Pro	Gly	Tyr	Ile
305					310					315					320
Cys	Asn	His	Ser	Asp	Tyr	Gln	Gly	Arg	Tyr	Arg	Phe	Asp	Asn	Gln	Pro
				325					330					335	
Ala	Val	Gly	Leu	Trp	Asn	Leu	Gln	Arg	Leu	Ala	Gln	Ser	Leu	Ser	Pro
			340					345					350		
Phe	Ile	Asp	Val	Asp	Ala	Leu	Asn	Asp	Ala	Leu	Asp	Ser	Tyr	Gln	Glu
		355					360					365			
Val	Leu	Leu	Arg	Glu	Tyr	Gly	Val	Leu	Met	Arg	Thr	Arg	Leu	Gly	Leu
	370					375					380				
Met	Thr	Gln	Gln	Lys	Gly	Asp	Asn	Ala	Leu	Leu	Asn	Gly	Leu	Phe	Ala
385					390					395					400
Ile	Met	Ala	Arg	Glu	Gly	Ser	Asp	Tyr	Thr	Arg	Thr	Phe	Arg	Met	Leu
				405					410					415	
Ser	Gln	Thr	Ala	Gln	Gln	Ser	Ala	Ala	Ser	Pro	Leu	Arg	Asp	Glu	Phe
			420					425					430		

Val Asp Arg Gln Ala Phe Asp Asp Trp Phe Ala Ala Tyr Arg Ala Arg
 435 440 445
 Leu Gln Gln Glu Gln Ile Asp Asp Asp Thr Arg Gln Ala Arg Met Lys
 450 455 460
 Ala Val Asn Pro Ala Met Val Leu Arg Asn Trp Leu Ala Gln Arg Ala
 465 470 475 480
 Ile Glu Gln Ala Glu Gln Gly Asp Tyr Thr Glu Leu His Arg Leu His
 485 490 495
 Ile Ala Leu Arg Thr Pro Phe Ala Asp Arg Glu Asp Asp Tyr Val Ser
 500 505 510
 Arg Pro Pro Asp Trp Gly Lys Arg Leu Glu Val Ser Cys Ser Ser
 515 520 525

<210> 8657

<211> 1043

<212> PRT

<213> Enterobacter cloacae

<400> 8657

Glu Lys Asn Val Ile Lys Leu Ser Arg His Asn Ala Asn Asp Phe Thr
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 Leu Phe Ser Leu Gly Ser Thr Ala Met Ile Pro Gln Ile Ser Gln Ala
 20 25 30
 Pro Gly Val Val Gln Leu Val Leu Asn Phe Leu Gln Ala Leu Glu Gln
 35 40 45
 Gln Gly Phe Thr Gly Asp Thr Ala Thr Asp Tyr Ala Asp Arg Leu Thr
 50 55 60
 Met Ala Thr Asp Asn Ser Ile Tyr Gln Leu Leu Pro Asp Ala Val Val
 65 70 75 80
 Phe Pro Arg Ser Thr Ala Asp Val Ala Leu Ile Ala Arg Leu Ala Ser
 85 90 95
 Gln Glu Arg Phe Ser Ser Leu Val Phe Thr Pro Arg Gly Gly Gly Thr
 100 105 110
 Gly Thr Asn Gly Gln Ala Leu Asn Gln Gly Ile Ile Ile Asp Met Ser
 115 120 125
 Arg Tyr Met Asn Arg Ile Ile Glu Ile Asn Pro Glu Glu Gly Trp Val
 130 135 140
 Arg Val Glu Ala Gly Val Ile Lys Asp Gln Leu Asn Gln Phe Leu Lys
 145 150 155 160
 Pro Tyr Gly Tyr Phe Phe Ala Pro Glu Leu Ser Thr Ser Asn Arg Ala
 165 170 175
 Thr Ile Gly Gly Met Ile Asn Thr Asp Ala Ser Gly Gln Gly Ser Leu
 180 185 190
 Val Tyr Gly Lys Thr Ser Asp His Val Met Gly Val Arg Ala Val Leu
 195 200 205
 Leu Gly Gly Asp Ile Leu Asp Thr Gln Pro Met Pro Ile Glu Leu Ala
 210 215 220
 Glu Thr Leu Ala Ala Glu Ser Thr Thr Ser Gly Arg Ile Tyr Arg Thr
 225 230 235 240
 Val Leu Glu Arg Cys Arg Glu Asn Arg Glu Leu Ile Leu Asp Lys Phe
 245 250 255
 Pro Lys Leu Asn Arg Phe Leu Thr Gly Tyr Asp Leu Arg His Val Phe
 260 265 270
 Asn Asp Asp Met Ser Gln Phe Asp Leu Thr Arg Val Leu Thr Gly Ser
 275 280 285
 Glu Gly Thr Leu Ala Phe Ile Thr Glu Ala Arg Leu Asp Ile Thr Arg
 290 295 300
 Leu Pro Lys Val Arg Arg Leu Val Asn Val Lys Tyr Asn Ser Phe Asp
 305 310 315 320
 Ser Ala Leu Arg Asn Ala Pro Phe Met Val Glu Ala Arg Ala Leu Ser
 325 330 335

Val	Glu	Thr	Val	Asp	Ser	Lys	Val	Leu	Asn	Leu	Ala	Arg	Glu	Asp	Ile
			340					345					350		
Val	Trp	His	Ser	Val	Ser	Glu	Leu	Ile	Thr	Asp	Val	Pro	Asp	Lys	Glu
		355					360					365			
Met	Leu	Gly	Leu	Asn	Ile	Val	Glu	Phe	Ala	Gly	Asp	Asp	Ala	Glu	Leu
	370					375					380				
Ile	Glu	Ser	Gln	Val	Asn	Thr	Leu	Cys	Gln	Arg	Leu	Asp	Glu	Leu	Ile
385					390					395					400
Ala	Gln	Gly	Glu	Gly	Gly	Val	Ile	Gly	Trp	Gln	Leu	Cys	Asn	Asp	Leu
			405					410						415	
Ser	Gly	Ile	Glu	Arg	Ile	Tyr	Ala	Met	Arg	Lys	Lys	Ala	Val	Gly	Leu
			420					425					430		
Leu	Gly	Asn	Ala	Lys	Gly	Ala	Ala	Lys	Pro	Ile	Pro	Phe	Ala	Glu	Asp
		435					440					445			
Thr	Cys	Val	Pro	Pro	Glu	His	Leu	Ala	Asp	Tyr	Ile	Val	Glu	Phe	Arg
	450					455					460				
Ala	Leu	Leu	Asp	Ser	His	Gly	Leu	Ser	Tyr	Gly	Met	Phe	Gly	His	Val
465					470					475					480
Asp	Ala	Gly	Val	Leu	His	Val	Arg	Pro	Ala	Leu	Asp	Met	Cys	Asp	Pro
			485						490					495	
Gln	Gln	Glu	Ile	Leu	Met	Lys	Ala	Ile	Ser	Asp	Glu	Val	Val	Ala	Leu
			500					505					510		
Thr	Ala	Lys	Tyr	Gly	Gly	Leu	Leu	Trp	Gly	Glu	His	Gly	Lys	Gly	Phe
		515					520					525			
Arg	Ala	Glu	Tyr	Ser	Pro	Ala	Phe	Phe	Gly	Glu	Gln	Leu	Tyr	Ala	Glu
	530					535					540				
Leu	Arg	Lys	Val	Lys	Ala	Ala	Phe	Asp	Pro	Asp	Asn	Arg	Leu	Asn	Pro
545					550					555					560
Gly	Lys	Ile	Cys	Pro	Pro	Glu	Gly	Val	Asp	Ala	Pro	Met	Leu	Gln	Val
			565						570					575	
Asp	Ala	Val	Lys	Arg	Gly	Thr	Tyr	Asp	Arg	Gln	Ile	Pro	Ile	Ala	Ile
			580					585					590		
Arg	Ala	Ser	Trp	Arg	Gly	Ala	Met	Glu	Cys	Asn	Gly	Asn	Gly	Leu	Cys
		595					600					605			
Phe	Asn	Phe	Asp	Val	Lys	Ser	Pro	Met	Cys	Pro	Ser	Met	Lys	Ile	Thr
	610					615					620				
Ser	Asn	Arg	Ile	His	Ser	Pro	Lys	Gly	Arg	Ala	Thr	Leu	Val	Arg	Glu
625					630					635					640
Trp	Leu	Arg	Leu	Leu	Ala	Asp	Arg	Gly	Val	Asp	Pro	Leu	Lys	Leu	Glu
			645						650					655	
Gln	Glu	Leu	Pro	Glu	Lys	Arg	Ala	Ser	Leu	Arg	Gly	Leu	Ile	Glu	Arg
			660				665						670		
Thr	Arg	Asn	Ser	Trp	His	Ala	Asn	Lys	Gly	Glu	Tyr	Asp	Phe	Ser	His
		675					680					685			
Glu	Val	Lys	Glu	Ala	Met	Ser	Gly	Cys	Leu	Ala	Cys	Lys	Ala	Cys	Ser
	690					695					700				
Thr	Gln	Cys	Pro	Ile	Lys	Ile	Asp	Val	Pro	Glu	Phe	Arg	Ser	Arg	Phe
705					710					715					720
Leu	Gln	Leu	Tyr	His	Thr	Arg	Tyr	Leu	Arg	Pro	Met	Arg	Asp	His	Leu
			725						730					735	
Val	Ala	Thr	Val	Glu	Ser	Tyr	Ala	Pro	Leu	Met	Ala	Arg	Ala	Pro	Lys
			740				745						750		
Thr	Phe	Asn	Phe	Phe	Ile	Asn	Gln	Pro	Leu	Val	Arg	Lys	Leu	Ser	Glu
		755					760					765			
Lys	His	Ile	Gly	Met	Val	Asp	Leu	Pro	Leu	Leu	Ser	Val	Pro	Ser	Leu
	770					775					780				
Gln	Arg	Arg	Leu	Val	Gly	His	Arg	Ser	Ala	Asn	Met	Thr	Leu	Glu	Gln
785					790					795					800
Leu	Glu	Ala	Leu	Ser	Pro	Glu	Gln	Lys	Ala	Lys	Val	Val	Leu	Val	Val
			805						810					815	
Gln	Asp	Pro	Phe	Thr	Ser	Tyr	Tyr	Asp	Ala	Gln	Val	Val	Ala	Asp	Phe

	820		825		830
Val Arg Leu	Ala Glu Lys Ile	Gly Tyr Gln Pro	Val Val Leu Pro	Phe	
835		840		845	
Ser Pro Asn	Gly Lys Ala Gln	His Ile Lys Gly	Phe Leu Thr Arg	Phe	
850		855		860	
Ala Lys Thr	Ala Gln Lys Thr	Ser Asp Phe Leu	Asn Arg Val Ala	Gln	
865		870		875	
Leu Gly Met	Pro Met Val Gly	Val Asp Pro Ala	Leu Val Leu Cys	Tyr	
	885		890		895
Arg Asp Glu	Tyr Lys Gln Thr	Leu Gly Asp Lys	Arg Gly Asp Phe	Gln	
	900		905		910
Val Leu Leu	Val His Glu Trp	Leu Pro Ala Val	Leu Thr Gln Thr	Pro	
	915		920		925
Pro Gln Glu	Val Ser Gly Glu	Ser Trp Tyr Leu	Phe Gly His Cys	Thr	
	930		935		940
Glu Val Thr	Ala Leu Pro Thr	Ala Pro Ala Gln	Trp Ala Ser Ile	Phe	
945		950		955	
Ser Arg Phe	Gly Ala Lys Leu	Glu Ser Val Asn	Val Gly Cys Cys	Gly	
	965		970		975
Met Ala Gly	Thr Tyr Gly His	Glu Val Lys Asn	His Ala Asn Ser	Leu	
	980		985		990
Gly Ile Tyr	Glu Leu Ser Trp	His Gln Ala Met	Gln Arg Leu Pro	Arg	
	995		1000		1005
Asn Arg Cys	Leu Ala Thr Gly	Tyr Ser Cys Arg	Ser Gln Val Lys	Arg	
	1010		1015		1020
Val Glu Gly	Asn Gly Val Arg	His Pro Leu Gln	Ala Leu Leu Glu	Ile	
1025		1030		1035	
Ile Gly					1040

<210> 8658

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 8658

Tyr Thr Gly	His Val Leu Asn	Ile Ser Glu Asp	Ile Met Asp Thr	Glu
1	5	10	15	
Ile Thr Pro	Ile Gln Leu Ala	Ile Glu Tyr Leu	Arg Arg Asp Lys	Ser
	20	25	30	
Asn Leu Ser	Pro Ala Gln Tyr	Leu Lys Lys Leu	Lys Gln Leu Glu	Leu
	35	40	45	
Glu Phe Thr	Asp Leu Leu Ala	Leu Ser Ser Asn	Glu Leu Lys Glu	Glu
	50	55	60	
Ile Tyr Phe	Ala Trp Arg Leu	Gly Val His Val	His	
65	70	75		

<210> 8659

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 8659

Ser Asn Thr	Gly Tyr Lys Ile	Met Asn Lys Lys	Leu Met Met Ala	Met
1	5	10	15	
Leu Ala Ala	Gly Ser Val Leu	Thr Met Thr Asn	Ala Leu Ala Ala	
	20	25	30	
Gly Thr Val	Asn Phe Asn Gly	Asn Ile Leu Asp	Ser Ala Cys Asp	Val
	35	40	45	
Asp Val Ala	Ser Gln Asn Gln	Val Val Val Leu	Gly Asp Tyr Tyr	Lys
	50	55	60	

Thr Glu Phe Pro Thr Thr Gly Ala Arg Thr Ala Ala Thr Gln Phe Asn
 65 70 75 80
 Ile Ile Leu Lys Asn Cys Pro Val Thr Val Thr Asn Ala Lys Val Arg
 85 90 95
 Phe Asp Gly Thr Pro Asp Leu Thr Asn Ala Ser Leu Leu Ala Ile Asp
 100 105 110
 Thr Ser Val Ala Gly Ala Ala Thr Gly Val Ala Ile Asn Leu Met Thr
 115 120 125
 Ala Asp Lys Ala Asp Leu Pro Leu His Gly Ser Asn Ser Tyr Thr Tyr
 130 135 140
 Ala Leu Ser Ser Thr Ala Asp Asn Thr Leu Ser Phe Tyr Ala Gln Tyr
 145 150 155 160
 Ile Ser Thr Ala Ala Ser Val Thr Ala Gly Pro Ala Asn Ser Val Ala
 165 170 175
 Asn Phe Ser Val Val Tyr
 180

<210> 8660

<211> 628

<212> PRT

<213> Enterobacter cloacae

<400> 8660

Ser Phe Ile Gly Met Gly Ile Leu Gln Gly Met His Gln Asn Ser Ala
 1 5 10 15
 Ile Pro Ala Ile Arg Ser Arg Gln Glu Pro Gly Asn Ser Met Leu Lys
 20 25 30
 Arg Cys Leu Ser Pro Leu Thr Leu Val Asn Gln Leu Ala Leu Ile Val
 35 40 45
 Leu Leu Ser Thr Ala Ile Gly Val Thr Gly Met Ala Ile Ser Gly Trp
 50 55 60
 Leu Val Gln Gly Val Gln Gly Asn Ala His Ala Ile Asn Glu Ala Gly
 65 70 75 80
 Ser Leu Arg Met Gln Ser Tyr Arg Leu Leu Ala Ser Val Pro Leu Thr
 85 90 95
 Gln Ala Asp Gln Pro Leu Ile Asp Glu Met Glu Arg Thr Ala Phe Ser
 100 105 110
 Pro Glu Leu Glu Arg Ala Ala Ile Arg Asp Gly Gln Gln Ser Gln Leu
 115 120 125
 Lys Ala Leu Gln Gly Tyr Trp His Thr Gln Leu Glu Pro Gly Leu Lys
 130 135 140
 Arg Ala Glu Asp Arg Glu Thr Val Ala Gln Asp Val Ala Gly Phe Val
 145 150 155 160
 Ser Arg Ile Asp His Leu Val Ser Ser Phe Asp Arg Thr Thr Glu Leu
 165 170 175
 Arg Ile Asp Arg Val Val Met Val His Arg Ala Met Ala Leu Phe Met
 180 185 190
 Gly Leu Leu Ile Phe Thr Val Ile Trp Leu Arg Ala Arg Leu Leu
 195 200 205
 Asn Pro Trp Lys Gln Leu Leu Ala Met Ala Arg Ala Val Thr Gln Arg
 210 215 220
 Asp Phe Thr Gln Arg Thr His Ile Ser Gly Arg Asn Glu Met Ala Met
 225 230 235 240
 Leu Gly Glu Ala Leu Asn Thr Met Ser Ala Glu Leu Ser Glu Ser Tyr
 245 250 255
 Ala Val Leu Glu Gln Arg Val Gln Glu Lys Thr Ala Gly Leu Glu Gln
 260 265 270
 Lys Asn Glu Ile Leu Ser Phe Leu Trp Gln Ala Asn Arg Arg Leu His
 275 280 285
 Met Gln Val Pro Leu Cys Glu Arg Leu Ser Pro Val Leu Asn Gly Leu
 290 295 300

Gln Asn Leu Thr Leu Leu Arg Asp Leu Glu Leu Arg Val Tyr Asp Val
 305 310 315 320
 Glu Asp Glu Glu Asn His Gln Glu Phe Thr Cys Gln Ser Asp Ile Ser
 325 330 335
 Cys Asp Asp Lys Gly Cys His Leu Cys Pro Arg Gly Leu Pro Pro Leu
 340 345 350
 Thr Thr Ser Gly Thr Thr Leu Lys Trp Arg Leu Met Asp Ser His Thr
 355 360 365
 Gln Tyr Gly Ile Leu Leu Ala Thr Leu Pro Ala Gly Arg His Leu Ser
 370 375 380
 His Asp Gln Gln Gln Leu Val Asp Thr Leu Val Glu Gln Leu Thr Ala
 385 390 395 400
 Thr Leu Ala Leu Asp Arg His Gln Glu Lys Gln Gln Gln Leu Ile Val
 405 410 415
 Met Glu Glu Arg Ala Thr Ile Ala Arg Glu Leu His Asp Ser Ile Ala
 420 425 430
 Gln Ser Leu Ser Cys Met Lys Met Gln Val Ser Cys Leu Gln Met Gln
 435 440 445
 Asp Glu Gly Met Pro Glu Ser Ser Lys Gln Leu Leu Ser Gln Ile Arg
 450 455 460
 Asn Glu Leu Asn Thr Ser Trp Val Gln Leu Arg Glu Leu Leu Thr Thr
 465 470 475 480
 Phe Arg Leu Gln Leu Thr Glu Pro Gly Leu Arg Pro Ala Leu Glu Ser
 485 490 495
 Ser Cys Gln Glu Phe Ser Ala Arg Leu Gly Phe Pro Val Lys Leu Asp
 500 505 510
 Tyr Gln Leu Pro Pro Arg Phe Val Pro Ser His Gln Ala Ile His Leu
 515 520 525
 Leu Gln Ile Ala Arg Glu Ala Leu Ser Asn Val Leu Lys His Ala Glu
 530 535 540
 Ala Thr Ala Val Thr Val Thr Val Ser Cys Gln Asp Asn Gln Val Lys
 545 550 555 560
 Leu Arg Val Gln Asp Asn Gly Arg Gly Val Pro Glu Asn Ala Glu Arg
 565 570 575
 Thr Asn His Tyr Gly Leu Ile Ile Met Arg Asp Arg Ala Gln Ser Leu
 580 585 590
 Arg Gly Asp Cys Gln Val Arg Arg Gly Glu Ser Gly Gly Thr Glu Val
 595 600 605
 Val Val Thr Phe Ile Pro Glu Lys Pro Leu Ile Thr Ala Gln Gly Glu
 610 615 620
 Asn His Asp
 625

<210> 8661

<211> 226

<212> PRT

<213> Enterobacter cloacae

<400> 8661

Arg Cys Asn Ala Ala Arg Phe Ser Ser Thr Arg Ala Leu Leu Ala Leu
 1 5 10 15
 His Ser Gly Ala Tyr Asn Leu Pro Cys Glu Gln Ser Gln Thr Phe Asp
 20 25 30
 Ala Pro Arg Ser His Cys Ser Ile Cys Thr Ser Arg Leu Met Pro Phe
 35 40 45
 Thr Ser Ala Pro Ser Cys Ala Ser Leu Pro Ser Cys Ser Ser Arg Asn
 50 55 60
 Ile Leu Ala Arg Trp Asn His Ser Val Ala Pro Gly Glu Leu Pro Ala
 65 70 75 80
 Thr Ile Val Ile Val Ser Leu Pro Asp Thr Tyr Ser Ser Val Arg Glu
 85 90 95

Ala Ile Phe Val Pro Phe Gln Arg Thr Gly Val Asn Met Gln Lys Ile
 100 105 110
 Val Ile Val Ala Asn Gly Ala Ala Tyr Gly Ser Glu Ser Leu Phe Asn
 115 120 125
 Ser Leu Arg Leu Ala Ile Ala Leu Arg Asp Lys Glu Ser Glu Leu Glu
 130 135 140
 Leu Arg Leu Phe Leu Met Ser Asp Ala Val Thr Ala Gly Leu Lys Gly
 145 150 155 160
 Gln Lys Pro Ala Glu Gly Tyr Asn Ile Gln Gln Met Leu Glu Ile Leu
 165 170 175
 Thr Ala Gln Asn Val Pro Val Lys Leu Cys Lys Thr Cys Thr Asp Gly
 180 185 190
 Arg Gly Ile Thr Gly Leu Pro Leu Ile Asp Gly Val Glu Ile Gly Thr
 195 200 205
 Leu Val Glu Leu Ala Glu Trp Thr Leu Ser Ala Asp Lys Val Leu Thr
 210 215 220
 Phe
 225

<210> 8662

<211> 377

<212> PRT

<213> Enterobacter cloacae

<400> 8662

Leu Gln Ala Pro Ala Leu Leu Glu Lys His Met Thr Ala Thr His Glu
 1 5 10 15
 Ala Val Lys Thr Arg His Lys Glu Thr Ser Leu Ile Phe Pro Val Leu
 20 25 30
 Ala Leu Ala Val Leu Leu Phe Trp Gly Ser Ser Gln Ser Leu Pro Val
 35 40 45
 Val Val Gly Ile Asn Ile Leu Ala Leu Val Gly Ile Leu Thr Ser Ala
 50 55 60
 Phe Ser Val Val Arg His Ala Asp Val Leu Ala His Arg Leu Gly Glu
 65 70 75 80
 Pro Tyr Gly Ser Leu Ile Leu Ser Leu Ser Val Val Ile Leu Glu Val
 85 90 95
 Ser Leu Ile Ser Ala Leu Met Ala Thr Gly Asp Ala Ala Pro Thr Leu
 100 105 110
 Met Arg Asp Thr Leu Tyr Ser Ile Ile Met Ile Val Thr Gly Gly Leu
 115 120 125
 Val Gly Phe Ser Leu Leu Leu Gly Gly Arg Lys Phe Ala Thr Gln Tyr
 130 135 140
 Met Asn Leu Phe Gly Ile Lys Gln Tyr Leu Ile Ala Leu Phe Pro Leu
 145 150 155 160
 Ala Ile Ile Val Leu Val Phe Pro Met Ala Leu Pro Gly Ala Asn Phe
 165 170 175
 Thr Thr Gly Gln Ala Leu Leu Val Ala Leu Ile Ser Ala Ala Met Tyr
 180 185 190
 Gly Val Phe Leu Leu Ile Gln Thr Lys Thr His Gln Ser Leu Phe Val
 195 200 205
 Tyr Glu His Glu Asp Asp Gly Asp Asp Asp Pro His His Gly Lys
 210 215 220
 Pro Ser Ala His Ser Ser Ala Trp His Thr Val Trp Leu Ile Val His
 225 230 235 240
 Leu Ile Ala Val Ile Ala Val Thr Lys Met Asn Ala Asn Pro Leu Glu
 245 250 255
 Ala Leu Leu Thr Glu Leu Asn Ala Pro Val Ala Phe Thr Gly Phe Leu
 260 265 270
 Val Ala Leu Leu Ile Leu Ser Pro Glu Gly Leu Gly Ala Leu Lys Ala
 275 280 285

Val	Leu	Asn	Asn	Gln	Val	Gln	Arg	Ala	Met	Asn	Leu	Phe	Phe	Gly	Ser
290						295					300				
Val	Leu	Ala	Thr	Ile	Ser	Leu	Thr	Val	Pro	Val	Val	Thr	Leu	Ile	Ala
305					310					315					320
Phe	Met	Thr	Gly	Asn	Glu	Leu	Gln	Phe	Ala	Leu	Gly	Ala	Pro	Glu	Met
				325					330					335	
Ile	Val	Met	Val	Ala	Ser	Leu	Leu	Leu	Cys	Gln	Ile	Ser	Phe	Ser	Thr
			340					345					350		
Gly	Arg	Thr	Asn	Val	Leu	Asn	Gly	Ala	Ala	His	Met	Ala	Leu	Phe	Ile
		355					360					365			
Ala	Tyr	Leu	Met	Thr	Ile	Phe	Ala								
	370						375								

<210> 8663

<211> 290

<212> PRT

<213> Enterobacter cloacae

<400> 8663

Met	Met	Thr	His	Trp	Pro	Phe	Pro	Ala	Lys	Leu	Asn	Leu	Phe	Leu	Tyr
1			5						10					15	
Ile	Thr	Gly	Gln	Arg	Ala	Asp	Gly	Tyr	His	Thr	Leu	Gln	Thr	Leu	Phe
			20					25					30		
Gln	Phe	Val	Asp	Tyr	Gly	Asp	Thr	Ile	Ser	Ile	Glu	Pro	Arg	Gln	Asp
		35				40						45			
Gly	Gln	Ile	His	Leu	Leu	Thr	Pro	Val	Asp	Gly	Val	Ala	His	Glu	Asp
		50				55					60				
Asn	Leu	Ile	Val	Arg	Ala	Ala	Arg	Leu	Leu	Met	Lys	Thr	Ala	Ser	Ser
65					70					75					80
Ser	Gly	Arg	Leu	Pro	Ala	Gly	Ser	Gly	Ala	Asp	Ile	Arg	Ile	Asp	Lys
			85						90					95	
Arg	Leu	Pro	Met	Gly	Gly	Gly	Leu	Gly	Gly	Gly	Ser	Ser	Asn	Ala	Ala
			100					105					110		
Thr	Val	Leu	Val	Ala	Leu	Asn	His	Leu	Trp	Asp	Cys	Gly	Leu	Thr	Thr
		115					120					125			
Asp	Glu	Leu	Ala	Ala	Leu	Gly	Leu	Thr	Leu	Gly	Ala	Asp	Val	Pro	Val
	130					135					140				
Phe	Val	Arg	Gly	His	Ala	Ala	Phe	Ala	Glu	Gly	Val	Gly	Glu	Ile	Leu
145					150					155					160
Thr	Pro	Val	Asp	Pro	Pro	Glu	Lys	Trp	Tyr	Leu	Ile	Val	His	Pro	Gly
			165						170					175	
Val	Ser	Ile	Pro	Thr	Pro	Val	Ile	Phe	Lys	Asp	Pro	Asp	Leu	Lys	Arg
			180					185					190		
Asn	Thr	Pro	Val	Arg	Ser	Ile	Lys	Thr	Leu	Leu	Asn	Cys	Glu	Phe	Ser
		195					200					205			
Asn	Asp	Cys	Glu	Asp	Ile	Ala	Arg	Lys	Arg	Phe	Arg	Glu	Val	Asp	Ala
	210					215						220			
Val	Leu	Ser	Trp	Leu	Leu	Glu	Tyr	Ala	Pro	Ser	Arg	Leu	Thr	Gly	Thr
				230						235					240
Gly	Ala	Cys	Val	Phe	Ala	Glu	Phe	Asp	Thr	Glu	Thr	Ala	Ala	Arg	Gln
			245						250					255	
Val	Leu	Glu	Gln	Ala	Pro	Val	Trp	Leu	His	Gly	Phe	Val	Ala	Arg	Gly
			260					265					270		
Met	Asn	Ile	Ser	Pro	Leu	Gln	Gln	Thr	Ile	Leu	Ala	Gln	Thr	Glu	Phe
		275					280						285		
Arg															
	290														

<210> 8664

<211> 562

<212> PRT

<213> Enterobacter cloacae

<400> 8664

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Ile Ile Val Lys Lys Val Thr Ser Ser His Val Leu Pro Phe Arg Ala
1      5      10      15
Leu Ile Asp Ala Cys Trp Lys Glu Lys Tyr Thr Ser Ser Arg Phe Val
20      25      30
Arg Asp Leu Ile Ala Gly Ile Thr Val Gly Ile Ile Ala Ile Pro Leu
35      40      45
Ala Met Ala Leu Ala Ile Gly Ser Gly Val Ala Pro Gln Tyr Gly Leu
50      55      60
Tyr Thr Ser Ala Val Ala Gly Ile Val Ile Ala Leu Thr Gly Gly Ser
65      70      75      80
Arg Phe Ser Val Ser Gly Pro Thr Ala Ala Phe Val Val Ile Leu Tyr
85      90      95
Pro Val Ser Gln Gln Phe Gly Leu Ala Gly Leu Leu Val Ala Thr Leu
100     105     110
Met Ser Gly Ile Phe Leu Ile Leu Phe Gly Leu Ala Arg Phe Gly Arg
115     120     125
Leu Ile Glu Tyr Ile Pro Leu Ser Val Thr Leu Gly Phe Thr Ser Gly
130     135     140
Ile Gly Ile Thr Ile Gly Thr Met Gln Ile Lys Asp Phe Leu Gly Leu
145     150     155     160
Gln Met Ala His Val Pro Glu His Tyr Leu Gln Lys Val Gly Ala Leu
165     170     175
Phe Met Ala Leu Pro Thr Ala Asn Leu Gly Asp Ala Ala Ile Gly Ile
180     185     190
Val Thr Leu Gly Thr Leu Ile Val Trp Pro Arg Leu Gly Ile Arg Leu
195     200     205
Pro Gly His Leu Pro Ala Leu Leu Leu Gly Cys Ala Val Met Gly Val
210     215     220
Val Asn Leu Leu Gly Gly Gln Val Ala Thr Ile Gly Ser Gln Phe His
225     230     235     240
Tyr Val Leu Ala Asp Gly Ser Gln Gly Ser Gly Ile Pro Gln Leu Leu
245     250     255
Pro Gln Leu Val Leu Pro Trp Asp Met Pro Gly Ser Ser Phe Thr Leu
260     265     270
Ser Trp Asp Ser Leu Arg Ala Leu Leu Pro Ala Ala Phe Ser Met Ala
275     280     285
Met Leu Gly Ala Ile Glu Ser Leu Leu Cys Ala Val Val Leu Asp Gly
290     295     300
Met Thr Gly Thr Lys His Lys Ala Asn Ser Glu Leu Val Gly Gln Gly
305     310     315     320
Leu Gly Asn Ile Val Val Pro Phe Phe Gly Gly Ile Thr Ala Thr Ala
325     330     335
Ala Ile Ala Arg Ser Ala Ala Asn Val Arg Ala Gly Ala Thr Ser Pro
340     345     350
Val Ser Ala Val Ile His Ser Leu Val Ile Met Ala Leu Leu Ile
355     360     365
Leu Ala Pro Leu Leu Ser Trp Leu Pro Leu Ser Ala Met Ala Ala Leu
370     375     380
Leu Leu Met Val Ala Trp Asn Met Ser Glu Ala His Lys Val Val Asn
385     390     395     400
Leu Leu Arg Arg Ala Pro Lys Asp Asp Ile Ile Val Met Leu Ile Cys
405     410     415
Met Ser Leu Thr Val Leu Phe Asp Met Val Ile Ala Ile Ser Val Gly
420     425     430
Ile Val Leu Ala Ser Leu Leu Phe Met Arg Arg Ile Ala Gln Met Thr
435     440     445
Arg Leu Ser Pro Val Asn Val Glu Val Pro Asp Asp Val Leu Val Leu
450     455     460

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Arg Val Ile Gly Pro Leu Phe Phe Ala Ala Ala Glu Gly Leu Phe Ser
465          470          475          480
Asp Leu Glu Tyr Arg Ile Ala Gly Lys Arg Ile Val Val Leu Lys Trp
          485          490          495
Asp Ala Val Pro Val Leu Asp Ala Gly Gly Leu Asp Ala Phe Gln Arg
          500          505          510
Phe Val Ala Arg Leu Pro Glu Gly Cys Glu Leu Arg Ile Ser Asn Leu
          515          520          525
Glu Phe Gln Pro Leu Arg Thr Met Ala Arg Ala Gly Val Gln Pro Ile
          530          535          540
Pro Gly Arg Leu Ser Phe Tyr Pro Asn Arg Glu Ala Ala Leu Ala Asp
545          550          555          560
Leu

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<210> 8665

<211> 223

<212> PRT

<213> Enterobacter cloacae

<400> 8665

```

Leu Leu Lys Glu Lys Thr Met Thr Asn Gln Glu Pro Ala Ser Ile Leu
1          5          10          15
Leu Ile Asp Asp His Pro Met Leu Arg Thr Gly Val Lys Gln Leu Val
          20          25          30
Ser Met Ala Pro Asp Ile Thr Val Val Gly Glu Ala Ser Asn Gly Glu
          35          40          45
Gln Gly Ile Glu Leu Ala Glu Ser Leu Asp Pro Asp Leu Ile Leu Leu
          50          55          60
Asp Leu Asn Met Pro Gly Met Asn Gly Leu Glu Thr Leu Asp Lys Leu
65          70          75          80
Arg Glu Lys Ser Leu Ser Gly Arg Val Val Val Phe Ser Val Ser Asn
          85          90          95
His Glu Glu Asp Val Val Thr Ala Leu Lys Arg Gly Ala Asp Gly Tyr
          100          105          110
Leu Leu Lys Asp Met Glu Pro Glu Asp Leu Leu Lys Ala Leu Gln Gln
          115          120          125
Ala Ala Ala Gly Glu Met Val Leu Ser Glu Ala Leu Thr Pro Val Leu
          130          135          140
Ala Ala Ser Leu Arg Ala Asn Arg Ala Thr Ser Asp Arg Asp Val Ser
145          150          155          160
Gln Leu Thr Pro Arg Glu Arg Asp Ile Leu Lys Leu Ile Ala Gln Gly
          165          170          175
Leu Pro Asn Lys Met Ile Ala Arg Arg Leu Asp Ile Thr Glu Ser Thr
          180          185          190
Val Lys Val His Val Lys His Met Leu Lys Lys Met Lys Leu Lys Ser
          195          200          205
Arg Val Glu Ala Ala Val Trp Val His Gln Glu Arg Ile Phe
210          215          220

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<210> 8666

<211> 82

<212> PRT

<213> Enterobacter cloacae

<400> 8666

```

Ser Thr Ser Pro Val Trp Pro Arg Pro Ala Gln Ala Glu Thr Arg Ala
1          5          10          15
Gly Gly Arg Tyr Gly Val Gln Asn Trp Ser Pro Cys Arg Phe Ser Arg
          20          25          30
Pro Ser Pro Gly Arg Glu Asn Gly Tyr Gly Gln Thr Gly Trp Cys Pro

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<210> 8667
<211> 633
<212> PRT
<213> Enterobacter cloacae
```

Leu 1	Phe	Asn	Asn	Asn 5	Pro	Leu	Lys	Ile	Leu 10	Phe	Ser	Tyr	Gly	Arg 15	Gly
Phe	Ser	Ile	Lys 20	Phe	Thr	Cys	Thr	Val 25	Ala	Asp	Arg	His	Gly 30	Asn	Asn
Thr	Ala	Gly 35	Ile	Thr	Leu	Met	Phe 40	Arg	Ser	Ile	Arg	Ala 45	Arg	Ile	Ile
Ala	Ala	Thr 50	Thr	Gly	Cys	Leu 55	Val	Val	Ala	Leu 60	Leu	Asn	Thr	Ile	
Ile 65	Asn	Phe	Gln	Val	Thr 70	Arg	Gln	Asp	Asn 75	Gln	Ser	Gln	Arg	Asp 80	
Ile	Leu	Thr	Ser	Thr 85	Ser	Ala	Ser	His	Asn 90	Met	Ala	Ile	Ala	Asp 95	Trp
Val	Asn	Ser	Lys 100	Ile	Thr	Val	Ile	Thr 105	Ser	Ala	Gln	Ser	Val	Ala	Leu
Ser	Asp	Asp 115	Pro	Val	Pro	Val	Phe 120	Lys	Gln	Leu	Ala	Leu 125	Ala	Gly	Gly
Phe	Thr 130	Asn	Val	Tyr	Val	Gly 135	Tyr	Ala	Ser	Lys	Thr 140	Ala	Lys	Phe	Ser
Asp 145	Pro	Thr	Gly	Val	Pro 150	Ala	Asp	Tyr	Asp 155	Pro	Thr	Leu	Arg	Pro 160	Trp
Tyr	Gln	Gln	Val 165	Val	Ser	Ala	Asp	Gly 170	Pro	Val	Val	Thr	Ala 175	Pro	Tyr
Val	Asp	Ala	Gly 180	Thr	Gly	Lys	Leu 185	Val	Val	Thr	Phe	Ala 190	Val	Pro	Val
Lys	Glu	Gln 195	Gly	Ala	Leu	Lys	Ala 200	Val	Val	Ala	Gly	Asp 205	Val	Ala	Met
Asp	Ser 210	Val	Val	Ala	Asn 215	Val	Arg	Gly	Ile	His 220	Pro	Thr	Pro	Ala	Ser
Ser 225	Gly	Leu	Leu	Leu	Asp 230	Ser	Asn	Gly	Thr 235	Val	Ile	Ala	Gly	Ser	Asp
Pro	Ala	Leu	Thr 245	Leu	Lys	Pro	Phe	Thr 250	Glu	Thr	Ile	Lys	Gly 255	Thr	Asp
Phe	Ala	Thr	Leu 260	Lys	Ser	Gly	Asn 265	Leu	Val	Asp	Gly	Thr 270	Ser	Asn	Gly
Arg	Glu 275	Lys	Thr	Phe	Leu	Ala 280	Thr	Ala 285	Val	Pro	Gly	Thr 290	His	Trp	Leu
Leu	Val 290	Val	Ala	Leu	Asp 295	Asn	Gly	Asp	Ala 300	Thr	Ala	Gly	Met	Arg	Ser
Leu 305	Leu	Lys	Ala	Ser 310	Ala	Leu	Ser	Leu	Ala 315	Ile	Leu	Ala	Leu	Leu	Ser
Gly	Ala	Leu	Met 325	His	Leu	Leu	Ile	Ala 330	Arg	Leu	Leu	Lys	Arg 335	Leu	Phe
Gly	Ile	Arg	Asp 340	Ala	Met	Asn	Asn 345	Ile	Ala	Asn	Gly	Thr 350	Asn	Asp	Leu
Ser	Gln 355	Arg	Leu	Pro	Asp	Lys 360	Gly	Gly	Asp	Glu	Val 365	Ala	Gln	Ile	Ala
Gln	Ala	Phe	Asn	Ala	Phe	Ser	Asp	Lys	Leu	Ser	Val	Val	Met	Val	Gln

370	375	380
Leu Arg Asp Ala Ser	Ala Ser Val Lys Asn Ala	Ala His Glu Ile Ala
385	390	395
Ala Gly Asn Gln Asp	Leu Ser Gly Arg Thr Glu	Gln Ala Ala Ser Ser
	405	410
Leu Arg Glu Thr Ala	Ser Ala Val Glu Glu	Ile Thr Ala Ser Val Thr
	420	425
Gln Ser Asn Glu Ser	Ala Ala Glu Ala Asn	Glu Gln Ala Ser Lys Ala
	435	440
Ser Ala Ala Ala Ser	Arg Gly Gly Asp Val	Val Ala Gln Ala Ile Ser
	450	455
Thr Met Gln Ser Ile	Glu Leu Ala Ser Ala	Lys Ile Gly Asp Ile Thr
465	470	475
Ser Val Ile Asp Gly	Ile Ala Phe Gln Thr	Asn Ile Leu Ala Leu Asn
	485	490
Ala Ser Val Glu Ala	Ala Arg Ala Gly Glu	Gln Gly Arg Gly Phe Ala
	500	505
Val Val Ala Gly Glu	Val Arg Asn Leu Ala	Ser Arg Ser Ala Gln Ala
	515	520
Ala Lys Glu Ile Lys	Ser Leu Ile Asp Ser	Thr Thr Glu Ser Val Ala
	530	535
Thr Gly Ser Arg Phe	Val His Leu Ala Gly	Asp Ser Met Asp Glu Ile
545	550	555
Arg Ala Ser Val Gly	Ser Val Ser Gly Ile	Met Arg Glu Ile Ser Ile
	565	570
Ala Thr Arg Glu Gln	Met Lys Gly Ile His	Glu Ile Asn His Ala Val
	580	585
Thr His Leu Asp Arg	Met Val Gln Gln Asn	Ala Glu Leu Val Val Gln
	595	600
Ser Ala Ala Ala Ala	Ser Ala Leu Gln Ser	Gln Ala Gly Asp Leu Ala
	610	615
Glu Thr Ala Gly His	Phe Arg Ile	
625	630	

<210> 8668

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 8668

Thr Val Ala Pro Phe	Asn Ala Ser Ile	Asn Ser Tyr Asn	Cys Asn Val
1	5	10	15
Ser Gln Gly Phe Val	Ile Ile Met Thr	Arg Met Ile Arg	Leu Leu Pro
	20	25	30
Leu Ala Ala Leu Val	Leu Thr Ala Cys	Ser Val His Gln	Pro Lys Gly
	35	40	45
Pro Gly Lys Ser Pro	Asp Ser Pro Gln	Trp Arg Gln His	Gln Gln Asp
	50	55	60
Val Leu Lys Leu Ser	Gln Tyr Gln Thr	Arg Gly Ala Phe	Ala Tyr Leu
	65	70	75
Ser Asp Glu Gln Lys	Val Tyr Ala Arg	Phe Phe Trp Gln	Gln Thr Gly
	85	90	95
Gln Asp Asn Tyr Arg	Leu Leu Leu Leu	Asn Pro Leu Gly	Ser Thr Glu
	100	105	110
Leu Glu Leu Asn Ala	Lys Pro Gly Glu	Ala Gln Ile Thr	Asp Asn Lys
	115	120	125
Gly Gln His Tyr Thr	Ala Thr Asp Ala	Glu Glu Met Ile	Gly Lys Leu
	130	135	140
Asn Gly Met Pro Ile	Pro Leu Asn Ser	Leu His Gln Trp	Ile Leu Gly
	145	150	155
Leu Pro Gly Asp Ala	Thr Asp Tyr Thr	Leu Asp Asp Gln	
	160		

165

170

<210> 8669
 <211> 196
 <212> PRT
 <213> Enterobacter cloacae

<400> 8669

Ile	Val	Thr	Ile	Lys	Leu	Ile	Val	Gly	Leu	Ala	Asn	Pro	Gly	Ala	Glu
1				5					10					15	
Tyr	Ala	Ala	Thr	Arg	His	Asn	Ala	Gly	Ala	Trp	Tyr	Val	Asp	Leu	Leu
			20					25					30		
Ala	Glu	Arg	Leu	Arg	Ala	Pro	Leu	Arg	Glu	Glu	Pro	Lys	Phe	Tyr	Gly
		35					40					45			
Tyr	Thr	Ser	Arg	Ile	Asn	Leu	Ala	Gly	Ala	Asp	Val	Arg	Leu	Leu	Val
	50				55					60					
Pro	Thr	Thr	Phe	Met	Asn	Leu	Ser	Gly	Lys	Ala	Val	Ala	Ala	Met	Ala
65				70					75					80	
Thr	Phe	Tyr	Arg	Ile	Asn	Pro	Asp	Glu	Ile	Leu	Val	Ala	His	Asp	Glu
			85					90					95		
Leu	Asp	Leu	Pro	Gly	Val	Ala	Lys	Phe	Lys	Leu	Gly	Gly	Gly	His	
		100					105					110			
Gly	Gly	His	Asn	Gly	Leu	Lys	Asp	Ile	Ile	Ser	Lys	Leu	Gly	Asn	Asn
		115					120					125			
Pro	Asn	Phe	His	Arg	Leu	Arg	Val	Gly	Ile	Gly	His	Pro	Gly	Asp	Lys
	130					135					140				
Asn	Lys	Val	Val	Gly	Phe	Val	Leu	Gly	Lys	Pro	Pro	Val	Ser	Glu	Gln
145				150					155					160	
Lys	Leu	Ile	Asp	Glu	Ala	Val	Asp	Glu	Ala	Ala	Arg	Cys	Thr	Glu	Ile
			165					170						175	
Trp	Leu	Gln	Asp	Gly	Leu	Thr	Lys	Ala	Thr	Asn	Arg	Leu	His	Ala	Phe
		180						185					190		
Lys	Ala	Gln													
		195													

<210> 8670
 <211> 369
 <212> PRT
 <213> Enterobacter cloacae

<400> 8670

Gly	Asp	Leu	Glu	Met	Gly	Phe	Lys	Cys	Gly	Ile	Val	Gly	Leu	Pro	Asn
1				5					10					15	
Val	Gly	Lys	Ser	Thr	Leu	Phe	Asn	Ala	Leu	Thr	Lys	Ala	Gly	Ile	Glu
			20					25					30		
Ala	Ala	Asn	Phe	Pro	Phe	Cys	Thr	Ile	Glu	Pro	Asn	Thr	Gly	Val	Val
		35					40					45			
Pro	Met	Pro	Asp	Pro	Arg	Leu	Asp	Gln	Leu	Ala	Glu	Ile	Val	Lys	Pro
	50				55				60						
Gln	Arg	Ile	Leu	Pro	Thr	Thr	Met	Glu	Phe	Val	Asp	Ile	Ala	Gly	Leu
65				70					75					80	
Val	Lys	Gly	Ala	Ser	Lys	Gly	Glu	Gly	Leu	Gly	Asn	Gln	Phe	Leu	Thr
			85					90					95		
Asn	Ile	Arg	Glu	Thr	Glu	Ala	Ile	Gly	His	Val	Val	Arg	Cys	Phe	Glu
		100					105					110			
Asn	Asp	Asn	Ile	Ile	His	Val	Asn	Asn	Lys	Val	Asp	Pro	Ala	Asp	Asp
	115						120					125			
Ile	Asp	Val	Ile	Asn	Thr	Glu	Leu	Ala	Leu	Ser	Asp	Leu	Asp	Thr	Cys
	130					135					140				
Glu	Arg	Ala	Ile	His	Arg	Val	Gln	Lys	Lys	Ala	Lys	Gly	Gly	Asp	Lys
145					150					155					160

Asp Ala Lys Ala Glu Leu Ala Ala Leu Glu Lys Cys Leu Pro Gln Leu
 165 170 175
 Glu Asn Ala Gly Met Leu Arg Ala Leu Lys Asn Leu Thr Asp Glu Asp
 180 185 190
 Lys Ala Ala Ile Lys Tyr Leu Ser Phe Leu Thr Leu Lys Pro Thr Met
 195 200 205
 Tyr Ile Ala Asn Val Asn Glu Asp Gly Phe Glu Asn Asn Pro Tyr Leu
 210 215 220
 Asp Lys Val Arg Glu Ile Ala Ala Ala Glu Gly Ser Val Val Val Ala
 225 230 235 240
 Val Cys Ala Ala Val Glu Ser Asp Ile Ala Glu Leu Asp Asp Ala Asp
 245 250 255
 Arg Glu Glu Phe Met Ala Glu Leu Gly Leu Glu Glu Pro Gly Leu Asn
 260 265 270
 Arg Val Ile Arg Ala Gly Tyr Glu Leu Leu Asn Leu Gln Thr Tyr Phe
 275 280 285
 Thr Ala Gly Val Lys Glu Val Arg Ala Trp Thr Ile Pro Val Gly Ala
 290 295 300
 Thr Ala Pro Gln Ala Ala Gly Lys Ile His Thr Asp Phe Glu Lys Gly
 305 310 315 320
 Phe Ile Arg Ala Gln Thr Ile Ala Phe Glu Asp Phe Ile Thr Tyr Lys
 325 330 335
 Gly Glu Gln Gly Ala Lys Glu Ala Gly Lys Met Arg Ala Glu Gly Lys
 340 345 350
 Asp Tyr Ile Val Lys Asp Gly Asp Val Met Asn Phe Leu Phe Asn Val
 355 360 365

<210> 8671

<211> 339

<212> PRT

<213> Enterobacter cloacae

<400> 8671

Arg Leu Leu Arg Pro Arg Ser Leu Arg Arg Thr Leu Ser Thr Thr Gly
 1 5 10 15
 Arg Met Pro Glu Val Leu Leu Val Pro Asp Met Lys Leu Phe Ala Gly
 20 25 30
 Asn Ala Thr Pro Glu Leu Ala Gln Arg Ile Ala Asn Arg Leu Tyr Thr
 35 40 45
 Ser Leu Gly Asp Ala Ala Val Gly Arg Phe Ser Asp Gly Glu Val Ser
 50 55 60
 Val Gln Ile Asn Glu Asn Val Arg Gly Gly Asp Ile Phe Ile Ile Gln
 65 70 75 80
 Ser Thr Cys Ala Pro Thr Asn Asp Asn Leu Met Glu Leu Val Val Met
 85 90 95
 Val Asp Ala Leu Arg Arg Ala Ser Ala Gly Arg Ile Thr Ala Val Ile
 100 105 110
 Pro Tyr Phe Gly Tyr Ala Arg Gln Asp Arg Arg Val Arg Ser Ala Arg
 115 120 125
 Val Pro Ile Thr Ala Lys Val Val Ala Asp Phe Leu Ser Ser Val Gly
 130 135 140
 Val Asp Arg Val Leu Thr Val Asp Leu His Ala Glu Gln Ile Gln Gly
 145 150 155 160
 Phe Phe Asp Val Pro Val Asp Asn Val Phe Gly Ser Pro Ile Leu Leu
 165 170 175
 Glu Asp Met Leu Gln Leu Asn Leu Asp Asn Pro Ile Val Val Ser Pro
 180 185 190
 Asp Ile Gly Gly Val Val Arg Ala Arg Ala Ile Ala Lys Leu Leu Asn
 195 200 205

Asp Thr Asp Met Ala Ile Ile Asp Lys Arg Arg Pro Arg Ala Asn Val
 210 215 220
 Ser Gln Val Met His Ile Ile Gly Asp Val Ala Gly Arg Asp Cys Val
 225 230 235 240
 Leu Val Asp Asp Met Ile Asp Thr Gly Gly Thr Leu Cys Lys Ala Ala
 245 250 255
 Glu Ala Leu Lys Glu Arg Gly Ala Lys Arg Val Phe Ala Tyr Ala Thr
 260 265 270
 His Pro Ile Phe Ser Gly Asn Ala Val Asn Asn Leu Arg Asn Ser Val
 275 280 285
 Ile Asp Glu Val Val Val Cys Asp Thr Ile Pro Leu Ser Asp Glu Ile
 290 295 300
 Lys Ala Leu Pro Asn Val Arg Thr Leu Thr Leu Ser Gly Met Leu Ala
 305 310 315 320
 Glu Ala Ile Arg Arg Ile Ser Asn Glu Glu Ser Ile Ser Ala Met Phe
 325 330 335
 Glu His

<210> 8672

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 8672

His Met Lys Arg Lys Asn Ala Ser Met Leu Gly Asn Val Leu Met Gly
 1 5 10 15
 Leu Gly Leu Phe Val Met Val Ala Gly Val Gly Tyr Ser Ile Leu Asn
 20 25 30
 Gln Leu Pro Gln Leu Asp Leu Pro Gln Tyr Phe Ala His Gly Ala Val
 35 40 45
 Leu Ser Ile Phe Leu Gly Ala Val Leu Trp Leu Ala Gly Ala Arg Val
 50 55 60
 Ser Gly His Glu Glu Val Cys Asp Lys Tyr Trp Trp Val Arg His Tyr
 65 70 75 80
 Asp Lys Arg Cys Arg Arg Asp Gln Arg Lys His Ser
 85 90

<210> 8673

<211> 372

<212> PRT

<213> Enterobacter cloacae

<400> 8673

Pro Ser Arg Asn Val Arg Leu Gln Ser Asn Asp Thr Gly Arg Thr Lys
 1 5 10 15
 Gly Ala Val Met Leu Ile Gln Val Gly Glu Leu Ala Lys Arg Ala Gly
 20 25 30
 Ile Thr Val Arg Thr Leu His His Tyr Glu Gln Thr Gly Leu Leu Leu
 35 40 45
 Pro Ser Ala Arg Ser Ala Ala Gly Tyr Arg Leu Tyr Asn Leu Ala Asp
 50 55 60
 Val Gln Arg Leu His Met Ile Gln Thr Leu Ala Lys Ala Gly Leu Glu
 65 70 75 80
 Leu Ala Glu Ile Arg Asp Phe Leu Lys Gln Arg Ser Leu Ser Leu Ala
 85 90 95
 Glu Leu Leu Asp Gly Gln Ile Thr Leu Leu Asp Lys Gln Leu Arg Ser
 100 105 110
 Ile His Thr Leu Arg Asn Arg Leu Val Glu Leu Arg Thr Gly Leu Thr
 115 120 125
 Asp Asp Ala Thr Pro Asp Leu Glu Ser Trp Leu Gln Thr Leu Glu Leu

130	135	140
Met Asn Met Tyr Asp Arg Trp Phe Ser Lys Glu Glu Leu Gln Gln Leu		
145	150	155
Pro Phe Ala Val Glu Lys Glu Ala Leu Ala Asp Ile Trp Ser Gly Leu		
	165	170
Val Arg Glu Val Lys His Leu Leu Glu Gln Asn Val Ser Val Thr Asp		
	180	185
Ala Arg Ala Thr Asp Leu Ala Ser Arg Trp Met Glu Arg Leu Glu Gln		
	195	200
Asp Thr Ala Gly Lys Pro Glu Phe Leu Thr Arg Leu Asn Glu Met His		
	210	215
Ser Val Glu Pro Gln Met Gln Glu Gln Thr Gly Ile Thr Pro Glu Ile		
225	230	235
Thr Asp Tyr Ile Thr Arg Ala Phe Ala Glu Ser Lys Leu Ser Ile Trp		
	245	250
Glu Lys Tyr Leu Thr Ala Glu Glu Met Ala Phe Thr Arg Ala His Tyr		
	260	265
Phe Asp Arg Met Met Glu Trp Pro Pro Leu Val Ala Lys Leu His Gln		
	275	280
Ala Gln Arg Asp Asn Leu Ser Pro Ala Ser Asp Asp Ala Gln Lys Leu		
	290	295
Ala Glu Lys Trp Leu Val Leu Phe Gln Ser Tyr Ala Gly Thr Asn Pro		
305	310	315
Gln Thr Gln Gln Lys Phe Arg Leu Ala Met Gln Gln Glu Pro His Leu		
	325	330
Met Lys Gly Thr Trp Met Thr Pro Ala Val Leu Glu Trp Leu Gln Gln		
	340	345
Ala Ile Gly Val Met Met Gln Arg Arg Val Ser Ala Ser Asp Asp Ser		
	355	360
Gln Ile Arg		365
370		

<210> 8674

<211> 296

<212> PRT

<213> Enterobacter cloacae

<400> 8674

Ala Tyr Arg Ala Gly Ile Pro Gly Arg Pro Ala Gly Gly Thr Val Arg	
1	5
Ala Gly Leu Met Asp Phe Gln Arg Trp Leu Arg His Ala Ala Ser Glu	
	20
Leu Ser Ala Ser Glu Ser Pro Lys Arg Asp Ala Glu Ile Leu Leu Glu	
	35
His Val Thr Gly Lys Ala Arg Thr Tyr Leu Leu Ala Phe Gly Glu Thr	
	50
Ala Leu Thr Ala Glu Gln Ser Gln Leu Glu Thr Leu Leu Ala Arg	
65	70
Arg Lys Thr Gly Glu Pro Val Ala His Leu Val Gly Glu Arg Glu Phe	
	85
Trp Ser Leu Pro Leu Tyr Val Ser Ala Ala Thr Leu Ile Pro Arg Pro	
	100
Asp Thr Glu Cys Leu Val Glu Gln Ala Leu Ala Arg Leu Pro Ala Gln	
	115
Pro Cys Gln Ile Leu Asp Leu Gly Thr Gly Thr Gly Ala Ile Ala Leu	
	130
Ala Leu Ala Ser Glu Arg Pro Asp Cys Thr Val Thr Ala Val Asp Val	
145	150
Met Pro Asp Ala Val Ala Leu Ala Arg Arg Asn Val Glu Arg Leu Gly	
	165
Leu Asn Asn Val Ser Val Leu Gln Ser Ser Trp Phe Ala Ala Leu Glu	
	170

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<210> 8675
<211> 281
<212> PRT
<213> Enterobacter cloacae
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$\langle 210 \rangle$	8676
$\langle 211 \rangle$	455

<213> Enterobacter cloacae

[illegible]

450

455

<210> 8677

<211> 480

<212> PRT

<213> Enterobacter cloacae

<400> 8677

Ser	Pro	Asn	Val	Cys	Ser	Ile	Ile	Arg	Glu	Ser	Glu	Val	Ser	Met	Ser
1				5					10					15	
His	Ser	Ser	Ala	Pro	Glu	Arg	Glu	Thr	Gly	Ala	Val	Ile	Thr	Asp	Trp
			20					25					30		
Arg	Pro	Glu	Asp	Pro	Ala	Phe	Trp	Gln	Gln	Arg	Gly	His	Arg	Val	Ala
		35					40					45			
Ser	Arg	Asn	Leu	Trp	Ile	Ser	Val	Pro	Cys	Leu	Leu	Leu	Ala	Phe	Cys
		50				55					60				
Val	Trp	Met	Leu	Phe	Ser	Ala	Val	Ala	Val	Asn	Leu	Pro	Lys	Val	Gly
65					70					75					80
Phe	Thr	Phe	Thr	Thr	Asp	Gln	Leu	Phe	Met	Leu	Thr	Ala	Leu	Pro	Ser
				85					90					95	
Leu	Ser	Gly	Ala	Leu	Leu	Arg	Val	Pro	Tyr	Ala	Phe	Met	Val	Pro	Val
			100					105					110		
Phe	Gly	Gly	Arg	Arg	Trp	Thr	Ala	Phe	Ser	Thr	Gly	Ile	Met	Ile	Ile
		115					120					125			
Pro	Cys	Val	Trp	Leu	Gly	Phe	Ala	Val	Gln	Asp	Thr	Ser	Thr	Pro	Phe
		130				135					140				
Ser	Val	Phe	Val	Ile	Ile	Ser	Leu	Leu	Cys	Gly	Phe	Ala	Gly	Ala	Asn
145					150					155					160
Phe	Ala	Ser	Ser	Met	Ala	Asn	Ile	Ser	Phe	Phe	Phe	Pro	Lys	Ala	Lys
				165					170					175	
Gln	Gly	Gly	Ala	Leu	Gly	Ile	Asn	Gly	Gly	Leu	Gly	Asn	Met	Gly	Val
			180					185					190		
Ser	Val	Met	Gln	Leu	Ile	Ala	Pro	Leu	Ala	Ile	Ser	Val	Ser	Ile	Phe
		195					200					205			
Ala	Ala	Phe	Gly	Gly	Gly	Gly	Val	Thr	Gln	Pro	Asp	Gly	Ser	Val	Leu
		210				215					220				
Phe	Leu	Gln	Asn	Ala	Ser	Trp	Ile	Trp	Val	Pro	Phe	Leu	Val	Val	Phe
225					230					235					240
Thr	Leu	Ala	Ala	Cys	Phe	Phe	Met	Asn	Asp	Leu	Ser	Ala	Ser	Lys	Ala
				245					250					255	
Ser	Leu	Ser	Glu	Gln	Leu	Pro	Val	Leu	Lys	Arg	Gly	His	Leu	Trp	Val
			260					265					270		
Met	Ala	Leu	Leu	Tyr	Leu	Ala	Thr	Phe	Gly	Ser	Phe	Ile	Gly	Phe	Ser
		275					280					285			
Ala	Gly	Phe	Ala	Met	Leu	Ser	Lys	Thr	Gln	Phe	Pro	Asp	Val	Gln	Ile
		290				295					300				
Leu	Gln	Phe	Ala	Phe	Phe	Gly	Pro	Phe	Ile	Gly	Ala	Leu	Ala	Arg	Ser
305					310					315					320
Leu	Gly	Gly	Met	Ile	Ser	Asp	Arg	Leu	Gly	Gly	Thr	Arg	Val	Thr	Leu
				325					330					335	
Val	Asn	Phe	Val	Val	Met	Ala	Ile	Phe	Cys	Ala	Leu	Leu	Phe	Leu	Thr
			340					345					350		
Leu	Pro	Ala	Gly	Gly	Glu	Gly	Gly	Asn	Phe	Phe	Ala	Phe	Phe	Gly	Val
		355					360					365			
Phe	Met	Val	Leu	Phe	Leu	Thr	Ala	Gly	Leu	Gly	Ser	Ala	Ser	Thr	Phe
		370				375					380				
Gln	Met	Ile	Ser	Val	Ile	Phe	Arg	Lys	Leu	Thr	Met	Asp	Arg	Val	Lys
385					390					395					400
Ala	Gln	Gly	Gly	Ser	Asp	Glu	Gln	Ala	Met	Arg	Glu	Ala	Ala	Thr	Asp
				405					410					415	
Thr	Ala	Ala	Ala	Leu	Gly	Phe	Ile	Ser	Ala	Ile	Gly	Ala	Ile	Gly	Gly

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<210> 8678
<211> 388
<212> PRT
<213> Enterobacter cloacae
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<400>	8678														
Thr 1	Pro	Asp	Asn	Ser 5	Ala	Gln	Gln	Pro	Arg 10	Ala	Gly	Ile	Ala	Pro 15	Tyr
Thr	His	Phe	Leu 20	Arg	Gln	Gly	Ala	Phe 25	Thr	Pro	Met	Lys	Pro 30	Ser	Ile
Val	Ala	Lys 35	Leu	Glu	Ala	Leu	His 40	Glu	Arg	His	Glu	Glu 45	Val	Gln	Ala
Leu	Leu	Gly 50	Asp	Ala	Gly	Thr 55	Ile	Ala	Asp	Gln	Glu 60	Arg	Phe	Arg	Ala
Leu 65	Ser	Arg	Glu	Tyr	Ala 70	Gln	Leu	Ser	Asp 75	Val	Ser	Lys	Cys	Phe	Thr 80
Asp	Trp	Arg	Gln	Val 85	Gln	Glu	Asp	Ile	Glu 90	Thr	Ala	Gln	Met	Met 95	Leu
Asp	Asp	Pro	Glu 100	Met	Arg	Glu	Met	Ala	Gln 105	Glu	Glu	Leu	Gln	Asp	Ala
Lys	Ala	Arg 115	Ser	Glu	Glu	Met	Glu 120	Gln	Gln	Leu	Gln	Val 125	Leu	Leu	Leu
Pro	Lys 130	Asp	Pro	Asp	Asp	Glu 135	Arg	Asn	Ala	Phe	Val 140	Glu	Val	Arg	Ala
Gly 145	Thr	Gly	Gly	Asp 150	Glu	Ala	Ala	Leu	Phe 155	Ala	Gly	Asp	Leu	Phe	Arg 160
Met	Tyr	Ser	Arg	Tyr 165	Ala	Glu	Ser	Arg	Arg 170	Trp	Arg	Val	Glu	Ile 175	Met
Ser	Ala	Asn 180	Glu	Gly	Glu	His	Gly	Gly 185	Tyr	Lys	Glu	Val 190	Ile	Ala	Lys
Ile	Ser 195	Gly	Asp	Gly	Val	Tyr	Gly 200	Arg	Leu	Lys	Phe	Glu 205	Ser	Gly	Gly
His	Arg 210	Val	Gln	Arg	Val	Pro 215	Ala	Thr	Glu	Ser	Gln 220	Gly	Arg	Ile	His
Thr 225	Ser	Ala	Cys	Thr 230	Val	Ala	Val	Met	Pro	Glu	Leu 235	Pro	Glu	Ala	Glu 240
Leu	Pro	Asp	Ile	Asn 245	Pro	Ala	Asp	Leu	Arg 250	Ile	Asp	Thr	Phe	Arg	Ser
Ser	Gly 260	Ala	Gly	Gly	Gln	His	Val	Tyr 265	Thr	Thr	Asp	Ser	Ala 270	Ile	Arg
Ile	Thr 275	His	Leu	Pro	Thr	Gly	Ile 280	Val	Val	Glu	Cys	Gln 285	Asp	Glu	Arg
Ser	Gln 290	His	Lys	Asn	Lys	Ala 295	Lys	Ala	Leu	Ser	Val 300	Leu	Gly	Ala	Arg
Ile 305	His	Ala	Ala	Glu 310	Met	Ala	Lys	Arg	Gln	Gln	Ala 315	Glu	Ala	Ser	Thr 320
Arg	Arg	Asn	Leu 325	Leu	Gly	Ser	Gly	Asp 330	Arg	Ser	Asp	Arg	Asn	Arg	Thr
Tyr	Asn	Phe	Pro 340	Gln	Gly	Arg	Val	Thr 345	Asp	His	Arg	Ile	Asn 350	Leu	Thr
Leu	Tyr 355	Arg	Leu	Asp	Glu	Ala	Met 360	Glu	Gly	Lys	Leu	Asp 365	Met	Leu	Ile
Glu	Pro	Ile	Val	Gln	Glu	Tyr	Gln	Ala	Asp	Gln	Leu	Ala	Ala	Leu	Ser

370
Glu Gln Asp
385

375

380

<210> 8679
<211> 83
<212> PRT
<213> Enterobacter cloacae

<400> 8679
Pro Lys Glu Arg Leu Thr Met Pro Tyr Lys Ser Lys Ser Glu Leu Pro
1 5 10 15
Asp Asn Val Gln Asn Val Leu Pro Ala His Ala Gln Asp Ile Tyr Lys
20 25 30
Glu Ala Phe Asn Ser Ala Trp Asp Gln Tyr Lys Asp Lys Lys Asp Arg
35 40 45
Arg Asp Asp Ala Ser Arg Glu Glu Thr Ala His Lys Val Ala Trp Ala
50 55 60
Ala Val Lys Asn Asp Tyr Glu Lys Gly Asp Asp Asp Lys Trp His Lys
65 70 75 80
Lys Lys

<210> 8680
<211> 409
<212> PRT
<213> Enterobacter cloacae

<400> 8680
Lys Gly Thr Asn Ile Ala Ser Arg Thr Glu Glu Tyr Val Ser Gly Arg
1 5 10 15
Glu Thr Met Thr Ile Val Ala Gly Ser Ser Pro Gly Ala Thr Glu Trp
20 25 30
Phe Gln Arg Ala Arg Met Leu Arg Glu Glu Gln Leu Gly Arg Leu Ala
35 40 45
Gln Leu Gly Ala Leu Val Asn Gly Ile Ser Arg Leu Val His Met Leu
50 55 60
Gln Cys Glu Arg Gly Ala Ser Asn Val Trp Leu Cys Ser Gln Gly Lys
65 70 75 80
Leu Tyr Ala Pro Glu Cys Lys Ala Ser Arg Ala Leu Val Asp Glu Asn
85 90 95
Leu Ala Ala Leu His Leu Gln Phe Asn Glu Pro Leu Pro Gly Ser Ala
100 105 110
Leu Cys Glu Arg Ile Ala Ser Ala Leu His Gly Leu Glu Thr Leu Thr
115 120 125
Ala Leu Arg Asp Gly Val Thr Gly Gln Cys Val Thr Ala Pro Gln Ala
130 135 140
Met Glu His Tyr Ser Arg Ile Leu Arg His Leu Leu Ser Ile Val Pro
145 150 155 160
Gln Leu Ser Asp Ser Ile Asp Asp Pro His Ile Ala Gly Arg Phe Val
165 170 175
Ala Leu Tyr Ser Leu Met Gln Gly Lys Glu Leu Val Gly Gln Glu Arg
180 185 190
Ala Leu Gly Ala Ile Gly Phe Thr Gln Gly Phe Phe Asp Asp Glu Thr
195 200 205
Arg Gln Arg Leu Val Asp Arg Ile Asp Gly Gln Gln Ala Cys Phe Glu
210 215 220
Val Phe Ile Ser His Cys Thr Pro Asp Val Gln Glu Ser Phe Thr Leu
225 230 235 240
Asn Cys Leu Pro Gly Leu Glu Thr Glu Lys Leu Arg Arg Glu Ala Cys
245 250 255

Thr Arg Gln Pro Pro Ala Asp Asn Gly Asp Thr Ala Leu Lys Trp Phe
 260 265 270
 Ala Leu Gln Thr Ala Arg Leu Glu His Leu Arg Thr Leu Glu Glu Val
 275 280 285
 Ala Ile Ala Asp Leu Met Thr Ala Val Glu Glu Arg Arg Tyr Ser Glu
 290 295 300
 Asn Leu His Ala Asp Asp Glu His Asp Asp Ile Leu Ala Arg Phe Pro
 305 310 315 320
 Asp Lys Pro Leu Leu Pro Leu Val Arg Gln Gln Ala Arg Glu Ile Glu
 325 330 335
 Gln Leu Ser Arg Gln Leu Ala Ser Leu Arg Asp Thr Leu Glu Glu Arg
 340 345 350
 Lys Thr Ile Asp Lys Ala Lys Ser Val Leu Met Thr His Gln Asn Met
 355 360 365
 Ser Glu Glu Gln Ala Trp Thr Ala Leu Arg Lys Met Ala Met Asp Lys
 370 375 380
 Asn Gln Arg Met Val Asp Ile Ala Arg Ala Leu Leu Thr Val Lys Asn
 385 390 395 400
 Leu Trp Lys Ile Pro Pro Gly Glu
 405

<210> 8681

<211> 835

<212> PRT

<213> Enterobacter cloacae

<400> 8681

Arg Ala Gly Asp Ala Cys Gly Gly Leu Met Thr Glu Thr Arg Thr Thr
 1 5 10 15
 Cys Pro Tyr Cys Gly Val Gly Cys Gly Val Val Ala Ser Ala Asp Gly
 20 25 30
 Glu Lys Val Ser Ile Arg Gly Asp Glu Thr His Pro Ala Asn Phe Gly
 35 40 45
 Arg Leu Cys Val Lys Gly Ser Ala Leu Gly Glu Thr Thr Gly Leu Gln
 50 55 60
 Gly Arg Leu Leu Arg Pro Val Val Asp Gly Arg Glu Val Ala Trp Pro
 65 70 75 80
 Gln Ala Leu Gly Glu Ala Gly Glu Arg Leu Arg Asn Ile Ile Asn Glu
 85 90 95
 Trp Gly Pro Gln Ala Val Ala Phe Tyr Ala Ser Gly Gln Leu Thr
 100 105 110
 Glu Asp Tyr Tyr Ala Ala Asn Lys Leu Met Lys Gly Phe Ile Gly Ala
 115 120 125
 Ala Asn Ile Asp Thr Asn Ser Arg Leu Cys Met Ser Ser Ala Val Val
 130 135 140
 Gly Tyr Lys Arg Ala Phe Gly Glu Asp Val Val Pro Cys Ser Tyr Glu
 145 150 155 160
 Asp Val Glu Asn Ser Asp Leu Val Val Leu Val Gly Ser Asn Ala Ala
 165 170 175
 Trp Thr His Pro Val Leu Tyr Gln Arg Leu Val Gln Ala Lys His Asn
 180 185 190
 Asn Pro Gln Met Lys Val Val Val Ile Asp Pro Arg Lys Thr Ala Thr
 195 200 205
 Cys Asp Ile Ala Asp Leu His Leu Ala Leu Arg Pro Gly Ser Asp Ala
 210 215 220
 Gly Leu Phe Val Gly Leu Leu Asn Leu Ile Gln Gly Arg Gly Glu Trp
 225 230 235 240
 Pro Ile Pro Arg Val Ala Ala Phe Cys Asp Leu Pro Ser Asp Glu Ile
 245 250 255
 Ser Thr Phe Tyr Asp Trp Phe Ile Thr Ala Pro Arg Ala Ile Thr Leu
 260 265 270

Tyr	Thr	Met	Gly	Ile	Asn	Gln	Ser	Ser	Thr	Gly	Ser	Asp	Lys	Cys	Asn
		275					280					285			
Ala	Ile	Ile	Asn	Val	His	Leu	Ala	Ser	Gly	Lys	Phe	Asn	Arg	Pro	Gly
	290					295					300				
Cys	Gly	Pro	Phe	Ser	Leu	Thr	Gly	Gln	Pro	Asn	Ala	Met	Gly	Gly	Arg
305					310					315					320
Glu	Val	Gly	Gly	Leu	Ala	Asn	Gln	Leu	Ala	Ala	His	Met	Asn	Phe	Glu
				325					330					335	
Pro	Asp	Asp	Leu	Ser	Arg	Val	Ala	Arg	Phe	Trp	Gly	Thr	Glu	Arg	Leu
			340					345					350		
Ala	Gln	Thr	Pro	Gly	Leu	Met	Ala	Val	Glu	Leu	Phe	Asp	Ala	Ile	Ala
		355					360					365			
Arg	Gly	Glu	Val	Lys	Ala	Val	Trp	Ile	Met	Gly	Thr	Asn	Pro	Ala	Val
	370					375					380				
Ser	Leu	Pro	Asp	Ser	His	Ala	Val	Cys	Gln	Ala	Leu	Ala	Ala	Cys	Pro
385					390					395					400
Leu	Val	Val	Val	Ser	Glu	Val	Met	Gln	Glu	Thr	Asp	Thr	Ser	Arg	Phe
				405					410					415	
Ala	His	Ile	Arg	Phe	Pro	Ala	Leu	Gly	Trp	Gly	Glu	Lys	Asn	Gly	Thr
			420					425					430		
Val	Thr	Asn	Ser	Glu	Arg	Arg	Ile	Ser	Arg	Gln	Arg	Ala	Phe	Leu	Pro
		435					440					445			
Ala	Pro	Gly	Glu	Ala	Arg	Pro	Asp	Trp	Trp	Ile	Ile	Ala	Arg	Met	Ala
	450					455					460				
Asp	Gln	Leu	Gly	Tyr	Gly	Asp	Ala	Phe	Ala	Trp	Lys	His	Pro	Gln	Glu
465					470					475					480
Ile	Phe	Cys	Glu	His	Ala	Ala	Leu	Thr	Ala	Phe	Glu	Asn	Asn	Gly	Glu
				485					490					495	
Arg	Ala	Leu	Asn	Leu	Arg	Glu	Leu	Ala	Ser	Leu	Ser	Arg	Glu	Ala	Trp
			500					505					510		
Asp	Ala	Leu	Ala	Pro	Tyr	Gln	Trp	His	Ala	Gly	Asp	Phe	Pro	Gln	Arg
		515					520					525			
Asn	Leu	Val	Pro	Val	Asp	Pro	Ser	Ser	His	Gly	Ala	Gly	Val	Asp	Glu
	530					535					540				
Leu	Tyr	Pro	Leu	Ile	Leu	Asn	Thr	Gly	Arg	Ile	Arg	Asp	Gln	Trp	His
545					550					555					560
Thr	Met	Thr	Arg	Thr	Gly	Tyr	Val	Pro	Arg	Leu	Met	Gln	His	Ile	Asp
				565					570					575	
Glu	Pro	Phe	Val	Glu	Met	Asn	Ala	Thr	Asp	Ala	Ala	Arg	Ala	Gly	Leu
			580					585					590		
Thr	Asp	Gly	Gln	Leu	Ala	Arg	Val	Ser	Ser	Pro	Arg	Gly	Val	Met	Val
		595					600					605			
Ala	Arg	Val	Arg	Ile	Ser	Thr	Ala	Gln	Arg	Ala	Gly	Glu	Leu	Phe	Thr
	610					615					620				
Pro	Met	His	Trp	Asn	Ala	Gln	Phe	Ala	Arg	Gln	Gly	Lys	Val	Asn	Ala
625					630					635					640
Leu	Val	Glu	Gly	Arg	Val	Asp	Ala	Gly	Ser	Gly	Gln	Pro	Glu	Ser	Lys
				645					650					655	
Gln	Thr	Ala	Val	Lys	Ile	Leu	Pro	Trp	Leu	Pro	Ala	Trp	Gln	Gly	Glu
			660					665					670		
Leu	Tyr	Ala	Arg	Asp	Leu	Pro	Ala	Leu	Pro	Pro	Ser	Val	Cys	Trp	Trp
		675					680					685			
Arg	Lys	Ala	Ser	Arg	Leu	Thr	Val	Ala	Gly	Glu	Gln	Pro	Leu	Leu	Ser
	690					695					700				
Trp	Val	Met	Ala	Tyr	Ala	Ser	Gly	Arg	Gly	Trp	Gln	Leu	Gln	Val	Ala
705					710					715					720
Gln	Thr	Gly	Glu	Arg	Asn	Ser	Val	Leu	Ala	Trp	His	His	Gly	Glu	Leu
				725					730					735	
Met	Leu	Gly	Tyr	Trp	Glu	Gly	His	Thr	Leu	Pro	Ala	Leu	Ala	His	Ala
			740					745				750			
Phe	Ile	Glu	Glu	Ala	Phe	Ala	Ala	Ala	Pro	Val	Gln	Leu	Ala	Glu	Arg

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<210> 8682
<211> 473
<212> PRT
<213> Enterobacter cloacae
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Leu 1	Thr	Thr	Leu	Lys 5	Ala	Val	Ser	Ser	Arg 10	Ile	Arg	Phe	Leu 15	Leu	
Leu	Pro	Leu	Phe 20	Thr	Ala	Gly	Ala	Val 25	His	Gly	Ala	Pro	Lys 30	Ser	Phe
Val	Gln	Gln	Ala 35	Gln	Asn	Pro	Phe 40	Asp	Asn	Asn	Gly	Asp 45	Ser	Leu	Pro
Asp	Leu 50	Gly	Met	Ala	Gln	Pro 55	Thr	Thr	Glu	Gly	Glu 60	Lys	His	Leu	Ala
Glu 65	Met	Ala	Lys	Ala	Phe 70	Gly	Glu	Ala	Ser	Met 75	Thr	Asp	Asn	Gly	Leu 80
Thr	Ala	Gly	Gln	Gln 85	Ala	Arg	Gln	Phe 90	Ala	Phe	Gly	Lys	Val	Arg 95	Asp
Ala	Val	Ser	Gly 100	Glu	Val	Asn	Glu	Gln 105	Ile	Glu	Ser	Trp	Leu 110	Ser	Pro
Trp	Gly	Asn 115	Ala	Ser	Val	Asn	Val	Leu 120	Val	Asp	Asp	Asp 125	Gly	Asn	Phe
Asn	Gly 130	Ser	Ser	Gly	Ser	Trp 135	Phe	Ile	Pro	Trp	Asn 140	Asp	Asn	Thr	Arg
Tyr 145	Leu	Ser	Trp	Ser	Gln 150	Leu	Gly	Leu	Thr	Gln 155	Gln	Thr	Asp	Gly	Leu 160
Val	Ser	Asn	Val	Gly 165	Ile	Gly	Gln	Arg	Trp 170	Val	Ala	Gly	Asn	Trp 175	Leu
Leu	Gly	Tyr	Asn 180	Thr	Phe	Tyr	Asp	Asn 185	Leu	Leu	Glu	Asp	Asn 190	Leu	Gln
Arg	Ala	Gly 195	Leu	Gly	Ala	Glu	Ala 200	Trp	Gly	Glu	Asn	Leu 205	Arg	Leu	Ser
Ala	Asn 210	Tyr	Tyr	Gln	Pro	Phe 215	Ala	Gly	Trp	Gln	Pro	Arg	Ser	Asp	Ile
Arg 225	Glu	Gln	Arg	Met	Ala 230	Arg	Gly	Tyr	Asp	Val 235	Thr	Ala	Lys	Ala	Trp 240
Leu	Pro	Trp	Phe 245	His	His	Leu	Asn	Thr	Ser 250	Val	Ser	Phe	Glu	Gln	Tyr 255
Phe	Gly	Asp	Asn 260	Val	Asp	Leu	Phe	Asn 265	Ser	Gly	Thr	Gly	Tyr 270	His	Asn
Pro	Val	Ala 275	Val	Asn	Leu	Gly	Leu	Asn 280	Tyr	Thr	Pro	Val	Pro	Leu	Val
Thr	Leu 290	Thr	Ala	Ala	His	Lys 295	Gln	Gly	Glu	Ser	Gly	Val	Ser	Gln	Asn
Asn 305	Leu	Gly	Leu	Lys	Leu 310	Asn	Tyr	Arg	Phe	Gly 315	Val	Pro	Leu	Ala	Lys 320
Gln	Leu	Ser	Ala	Gly 325	Glu	Val	Ala	Ala	Thr	Arg	Ser	Leu	Arg	Gly	Ser
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<210> 8683
<211> 434
<212> PRT
<213> Enterobacter cloacae
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<400> 8683															
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Thr	Leu	Leu	Ala 20	Leu	Gly	Ile	Asn 25	His	Lys	Thr	Ala	Pro	Val 30	Ser	Leu
Arg	Glu	Arg 35	Val	Thr	Phe	Ser	Pro 40	Asp	Thr	Leu	Asp	Leu 45	Ala	Leu	Asp
Ser	Leu 50	Leu	Ala	Gln	Pro	Met 55	Val	Gln	Gly	Gly	Val 60	Val	Leu	Ser	Thr
Cys 65	Asn	Arg	Thr	Glu	Leu 70	Tyr	Leu	Ser	Val	Glu 75	Glu	Gln	Asp	Asn 80	Leu
His	Glu	Ala	Leu	Ile 85	Arg	Trp	Leu	Cys	Asp 90	Tyr	His	Asn	Leu 95	Asn	Glu
Glu	Glu	Leu	Arg 100	Asn	Ser	Leu	Tyr	Trp 105	His	Gln	Asp	Asn 110	Asp	Ala	Val
Ser	His	Leu 115	Met	Arg	Val	Ala	Ser 120	Gly	Leu	Asp	Ser	Leu 125	Val	Leu	Gly
Glu	Pro 130	Gln	Ile	Leu	Gly	Gln 135	Val	Lys	Lys	Ala	Phe 140	Ala	Asp	Ser	Gln
Lys 145	Gly	His	Leu	Lys 150	Ala	Ser	Glu	Leu	Glu	Arg 155	Met	Phe	Gln	Lys 160	Ser
Phe	Ser	Val	Ala	Lys 165	Arg	Val	Arg	Thr	Glu 170	Thr	Asp	Ile	Gly 175	Ala	Ser
Ala	Val	Ser	Val 180	Ala	Phe	Ala	Ala 185	Cys	Thr	Leu	Ala	Arg 190	Gln	Ile	Phe
Glu	Ser 195	Leu	Ser	Thr	Val	Thr	Val 200	Leu	Leu	Val	Gly	Ala 205	Gly	Glu	Thr
Ile	Glu 210	Leu	Val	Ala	Arg	His 215	Leu	Arg	Glu	His	Lys 220	Val	Lys	Lys	Met
Ile 225	Ile	Ala	Asn	Arg	Thr 230	Arg	Glu	Arg	Ala	Gln 235	Val	Leu	Ala	Asp	Glu
Val	Gly	Ala	Glu	Val 245	Ile	Ala	Leu	Ser	Asp 250	Ile	Asp	Glu	Arg	Leu 255	Lys
Glu	Ala	Asp	Ile 260	Ile	Ile	Ser	Ser	Thr 265	Ala	Ser	Pro	Leu	Pro 270	Ile	Ile
Gly	Lys	Gly 275	Met	Val	Glu	Arg	Ala 280	Leu	Lys	Ser	Arg	Arg 285	Asn	Gln	Pro
Met	Leu	Leu	Val	Asp	Ile	Ala	Val	Pro	Arg	Asp	Val	Glu	Pro	Glu	Val

290		295		300
Gly Lys Leu Ala Asn Ala Tyr Leu Tyr Ser Val Asp Asp Leu Gln Ser				
305		310		315
Ile Ile Ser His Asn Leu Ala Gln Arg Lys Ala Ala Ala Val Gln Ala				320
	325		330	335
Glu Thr Ile Val Glu Gln Glu Thr Ser Glu Phe Met Ala Trp Leu Arg				
	340		345	350
Ala Gln Ser Val Ser Glu Thr Ile Arg Glu Tyr Arg Gly Gln Ala Glu				
	355		360	365
Gln Val Arg Asp Asp Leu Thr Ala Lys Ala Leu Ala Leu Glu Gln				
	370		375	380
Gly Gly Asp Ala Gln Ala Ile Met Gln Asp Leu Ala Trp Lys Leu Thr				
385		390		395
Asn Arg Leu Ile His Ala Pro Thr Lys Ser Leu Gln Gln Ala Ala Arg				400
	405		410	415
Asp Gly Asp Asp Glu Arg Leu Thr Ile Leu Arg Asn Ser Leu Gly Leu				
	420		425	430
Glu				

<210> 8684

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 8684

Thr Ser Asp Ala Gly Ala Ala Val Met Ser Leu Phe Thr Leu Leu Ile		
1	5	10
Ser Val His Leu Val Ser Val Ala Leu Thr Ile Gly Phe Phe Ile Ala		
	20	25
Arg Tyr Trp Trp Arg Tyr Asn Asn Pro Leu Ile Asn Ala Arg Trp		
	35	40
Val Arg Ile Ala Pro His Cys Ile Asp Thr Val Leu Phe Leu Ser Gly		
	50	55
Ala Gly Leu Met Trp Lys Thr Gly Tyr Leu Pro Phe Thr Asp Lys Gly		
65	70	75
Ala Trp Leu Thr Glu Lys Leu Phe Gly Val Ile Ile Tyr Ile Val Leu		
	85	90
Gly Phe Ile Ala Leu Gly Arg His Arg Pro Arg Ser Gln Gln Thr Gly		
	100	105
Phe Ile Ala Phe Leu Leu Gly Leu Val Val Leu Tyr Ile Ile Ile Lys		
	115	120
Leu Ala Thr Thr Arg Ile Pro Leu Leu Gly		
	130	135

<210> 8685

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 8685

Val Met Arg Ser Leu Ala Asp Phe Glu Phe Asn Lys Val Pro Leu Cys		
1	5	10
Asp Gly Met Ile Leu Ile Ser Glu Met Ile Arg Asp Asp Phe Thr Ser		
	20	25
Gln Tyr Val Tyr Ala Glu Leu Glu Asn Leu Val Ser Leu Ala Arg Glu		
	35	40
Glu Ile Asn Gln Ala Arg Pro Gln Asp Trp Gln Leu Glu Lys Leu Ile		
	50	55
Glu Leu Phe Tyr Gly Glu Trp Gly Phe Cys Asp Thr Arg Gly Val Tyr		
65	70	75
		80

Arg Leu Ser Asp Ala Leu Trp Leu Asp Gln Val Leu Lys Asn Arg Gln
 85 90 95
 Gly Ser Ala Val Ala Leu Gly Ala Ile Leu Leu Trp Val Ala His Glu
 100 105 110
 Leu Glu Ile Pro Leu Val Pro Val Ile Phe Pro Thr Gln Met Ile Leu
 115 120 125
 Arg Ala Glu Trp Leu Asp Gly Glu Met Trp Leu Ile Asn Pro Phe Asn
 130 135 140
 Gly Asp Thr Leu Asp Glu His Thr Leu Asp Val Trp Leu Lys Gly Asn
 145 150 155 160
 Ile Ser Pro Ile Ala Glu Leu Phe Asn Glu Asp Leu Asp Glu Ala Asp
 165 170 175
 Asn Ala Glu Val Ile Arg Lys Leu Leu Asp Thr Leu Lys Ser Ala Leu
 180 185 190
 Met Glu Glu Arg Gln Met Glu Leu Ala Leu Arg Ala Ser Glu Val Leu
 195 200 205
 Leu Gln Phe Asn Pro Glu Asp Pro Tyr Glu Ile Arg Asp Arg Gly Leu
 210 215 220
 Ile Tyr Ala Gln Leu Asp Cys Glu His Val Ala Leu Asn Asp Leu Asn
 225 230 235 240
 Tyr Phe Val Glu Gln Cys Pro Glu Asp Pro Ile Ser Glu Met Ile Arg
 245 250 255
 Ala Gln Ile Asn Ala Ile Ala His Lys His Ile Thr Leu His
 260 265 270

<210> 8686

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 8686

Gly Asp Pro Met Lys Gln Lys Val Val Ser Ile Gly Asp Ile Asn Val
 1 5 10 15
 Ala Asn Asp Leu Pro Phe Val Leu Phe Gly Gly Met Asn Val Leu Glu
 20 25 30
 Ser Arg Asp Leu Ala Met Arg Ile Cys Glu His Tyr Val Thr Val Thr
 35 40 45
 Gln Lys Leu Gly Ile Pro Tyr Val Phe Lys Ala Ser Phe Asp Lys Ala
 50 55 60
 Asn Arg Ser Ser Ile His Ser Tyr Arg Gly Pro Gly Leu Glu Glu Gly
 65 70 75 80
 Met Lys Ile Phe Gln Glu Leu Lys Gln Thr Phe Gly Val Lys Val Ile
 85 90 95
 Thr Asp Val His Glu Ala Ser Gln Ala Gln Pro Val Ala Asp Val Val
 100 105 110
 Asp Val Ile Gln Leu Pro Ala Phe Leu Ala Arg Gln Thr Asp Leu Val
 115 120 125
 Glu Ala Met Ala Lys Thr Gly Ala Val Ile Asn Val Lys Lys Pro Gln
 130 135 140
 Phe Val Ser Pro Gly Gln Met Gly Asn Ile Val Asp Lys Phe Ile Glu
 145 150 155 160
 Gly Gly Asn Asp Gln Val Ile Leu Cys Asp Arg Gly Ser Asn Phe Gly
 165 170 175
 Tyr Asp Asn Leu Val Val Asp Met Leu Gly Phe Ser Val Met Lys Asn
 180 185 190
 Val Ser Asn Gln Ser Pro Val Ile Phe Asp Val Thr His Ser Leu Gln
 195 200 205
 Cys Arg Asp Pro Phe Gly Ala Ala Ser Gly Gly Arg Arg Ala Gln Val
 210 215 220
 Thr Glu Leu Ala Arg Ala Gly Met Ala Thr Gly Leu Ala Gly Leu Phe
 225 230 235 240

Ile Glu Ala His Pro Asp Pro Ala Asn Ala Lys Cys Asp Gly Pro Ser
 245 250 255
 Ala Leu Pro Leu Asp Lys Leu Glu Pro Phe Leu Lys Gln Ile Lys Ala
 260 265 270
 Ile Asp Asp Leu Val Lys Ser Phe Asp Glu Leu Asp Thr Ser Asn
 275 280 285

<210> 8687

<211> 297

<212> PRT

<213> Enterobacter cloacae

<400> 8687

Arg Gly Leu Ser Met Gln His Leu Gln Asn Thr Lys Pro Gln Glu Thr
 1 5 10 15
 Ser Glu Ser Gly Glu Val Ile Val Leu Pro Pro Leu Gln Val Arg Arg
 20 25 30
 Arg Ala Pro Ala Phe Thr Arg Arg Met Asn Asp Phe Leu Gln Arg Val
 35 40 45
 Ile Pro Ala Leu Leu Gly Leu Gly Leu Leu Val Val Leu Trp Gln Leu
 50 55 60
 Ala Ala Ile Asn Ser Lys Gly Phe Pro Thr Pro Leu Ser Thr Leu Asp
 65 70 75 80
 Ser Ala Met Thr Leu Phe Ala Asp Pro Phe Tyr Arg Asp Gly Pro Asn
 85 90 95
 Asp Met Gly Ile Gly Trp Asn Val Leu Ala Ser Leu Gln Arg Val Ala
 100 105 110
 Ile Gly Phe Gly Leu Ala Ala Leu Ala Gly Ile Pro Leu Gly Phe Leu
 115 120 125
 Ile Gly Arg Phe Thr Phe Phe Ser Arg Met Phe Asn Pro Leu Ile Ala
 130 135 140
 Leu Leu Arg Pro Val Ser Pro Leu Ala Trp Leu Pro Ile Gly Leu Leu
 145 150 155 160
 Leu Phe Gln Lys Ala Glu Pro Ala Ser Ser Trp Thr Ile Phe Ile Cys
 165 170 175
 Ser Ile Trp Pro Met Val Ile Asn Thr Ala Glu Gly Val Arg Cys Ile
 180 185 190
 Pro Gln Asp Tyr Leu Asn Val Ala Arg Val Leu Gln Leu Ser Glu Trp
 195 200 205
 Thr Ile Met Arg Arg Ile Leu Phe Pro Ala Val Leu Pro Ala Val Leu
 210 215 220
 Thr Gly Val Arg Leu Ser Ile Gly Ile Ala Trp Leu Val Ile Val Ala
 225 230 235 240
 Ala Glu Met Leu Thr Gly Gly Leu Gly Ile Gly Phe Trp Ile Trp Asn
 245 250 255
 Glu Trp Asn Asn Leu Asn Val Glu Asn Ile Leu Ile Ala Ile Val Ile
 260 265 270
 Ile Gly Val Val Gly Leu Leu Leu Glu Gln Gly Leu Met Leu Ile Ala
 275 280 285
 Arg Arg Phe Ser Trp Gln Glu Lys
 290 295

<210> 8688

<211> 266

<212> PRT

<213> Enterobacter cloacae

<400> 8688

Gly Val Lys Met Lys Pro Leu Ile Gln Val Gln Ala Val Ser Gln Arg
 1 5 10 15
 Phe Ser Thr Ala Ser Gly Glu Phe Leu Ala Leu Gln Asn Val Ser Phe


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<210> 8689
<211> 1332
<212> PRT
<213> Enterobacter cloacae
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<400> 8689															
Gly 1	Gly	Thr	Met	Arg 5	Leu	Val	Ile	Ile	Gly 10	Asn	Gly	Met	Ala	Ala 15	Thr
Arg	Leu	Ile	Ala 20	Ser	Leu	Thr	Gly 25	Arg	Val	Pro	Gly	Arg	Phe 30	Ala	Val
Thr	Val	Ile 35	Gly	Asp	Glu	Pro	Glu 40	Gln	Ala	Tyr	Asn 45	Arg	Ile	Gln	Leu
Ser	Pro 50	Val	Leu	Gly	Gly 55	Glu	Lys	Gln	Ala	Glu	His 60	Ile	Cys	Leu	His
Asp 65	Glu	Asp	Trp	Tyr	Thr 70	Ala	Arg	Gly	Val	Thr 75	Val	Leu	Arg	Gly 80	Glu
Thr	Ala	Leu	Ala 85	Val	Asp	Val	Asn	Ala 90	Arg	Glu	Val	His	Thr 95	Ser	Ala
Cys	Thr	Leu	Gly 100	Trp	Asp	Ala	Leu	Val 105	Phe	Ala	Thr	Gly	Ser 110	Thr	Pro
Val	Val 115	Pro	Pro	Ile	Pro	Gly	Gly 120	Asp	Ala	Pro	His 125	Val	Phe	Thr	Phe
Arg	Thr 130	Leu	Ala	Glu	Thr	Arg 135	Ala	Ile	Gln	Asn 140	Ile	Ser	Gly	Pro	Ala
Val 145	Val	Leu	Gly	Gly 150	Gly	Val	Leu	Gly	Val 155	Glu	Ala	Ala	Ala	Ala	Leu
Ala	Arg	Lys	Gly 165	Asp	Asn	Val	Thr	Leu	Val 170	His	Arg	Gly	Pro	Trp 175	Leu
Met	Glu	Gln	Gln	Leu	Asp	Gln	Gln	Ala	Gly	Leu	Leu	Leu	Glu	Glu	Ala

				180				185					190			
Leu	Ala	Ala	Arg	Gly	Val	Ser	Cys	Glu	Leu	Ala	Ser	Gly	Ile	Thr	Ala	
		195					200					205				
Ile	Ala	Asp	Asp	Ala	Val	Thr	Ser	Leu	Asp	Gly	Arg	Arg	Ile	Ala	Ala	
	210					215					220					
Thr	Arg	Val	Val	Leu	Ala	Thr	Gly	Val	Gln	Pro	Asn	Val	Ala	Leu	Ala	
225				230					235						240	
Asn	Ala	Ser	Gly	Ile	Arg	Cys	Ala	Arg	Gly	Ile	Val	Val	Asp	Gln	Gln	
				245					250					255		
Met	Gln	Thr	Ser	Val	Pro	Gly	Ile	Tyr	Ala	Ile	Gly	Glu	Cys	Cys	Glu	
			260					265					270			
Ile	Asp	Gly	Gln	Thr	Phe	Gly	Leu	Val	Ala	Pro	Cys	Leu	Ala	Gln	Ala	
	275						280					285				
Asp	Ile	Leu	Ala	Ala	Arg	Leu	Ala	Gly	Glu	Val	Thr	Ala	Pro	Phe	Thr	
	290					295					300					
Leu	Thr	Asp	Asn	Gly	Val	Arg	Leu	Lys	Val	Thr	Gly	Val	Glu	Leu	Phe	
305				310					315						320	
Ser	Leu	Gly	Arg	Ala	Thr	Ala	Gln	Ala	Asp	Asp	Val	Val	Trp	Ser	Ser	
				325					330					335		
Trp	Asp	Pro	Leu	Thr	Arg	His	Tyr	Arg	Arg	Leu	Leu	Ile	His	Gln	Gly	
			340					345					350			
Ala	Leu	Ala	Gly	Val	Leu	Leu	Leu	Gly	Asp	Cys	Arg	Ser	Ala	Ala	Thr	
	355						360					365				
Phe	Thr	Asp	Leu	Leu	Ala	Thr	Ala	Ala	Pro	Ala	His	Ala	Asp	Trp	Leu	
	370					375					380					
Phe	Asp	Arg	Phe	Thr	Thr	Gln	Pro	Gln	Val	Ala	Gly	Gln	Asn	Ala	Met	
385				390					395						400	
Thr	Lys	Pro	Thr	Leu	Val	Val	Val	Gly	His	Gly	Met	Val	Gly	His	His	
			405					410					415			
Phe	Leu	Glu	Asp	Cys	Val	Asn	Arg	Asn	Leu	His	Gln	Gln	Tyr	Gln	Ile	
	420							425				430				
Ile	Val	Phe	Gly	Glu	Glu	Arg	Tyr	Ala	Ala	Tyr	Asp	Arg	Val	His	Leu	
	435						440					445				
Ser	Glu	Tyr	Phe	Gly	Gly	Arg	Ser	Ala	Asp	Ser	Leu	Ser	Leu	Val	Ala	
	450					455					460					
Gly	Glu	Phe	Phe	Ala	Asp	Asn	Gly	Ile	Glu	Leu	Arg	Leu	Ser	Gln	Gln	
465				470					475						480	
Ile	Val	Ala	Ile	Asp	Arg	Asp	Ala	His	Val	Val	Arg	Thr	Ala	Ser	Gly	
	485							490					495			
His	Glu	Thr	His	Trp	Asp	Lys	Leu	Val	Leu	Ala	Thr	Gly	Ser	Tyr	Pro	
	500							505					510			
Phe	Val	Pro	Val	Pro	Gly	Asn	Asp	Leu	Pro	Gly	Cys	Phe	Val	Tyr		
	515		</													

Val	Leu	Ala	Ile	Gly	Glu	Cys	Ala	Leu	Trp	Glu	Gly	Lys	Ile	Phe	Gly
		675					680					685			
Leu	Val	Ala	Pro	Gly	Tyr	Gln	Met	Ala	Arg	Val	Ala	Ala	Ala	Val	Leu
		690				695					700				
Ala	Gly	Glu	Glu	Lys	Arg	Phe	Thr	Gly	Ala	Asp	Met	Ser	Thr	Lys	Leu
705				710						715					720
Lys	Leu	Leu	Gly	Val	Asp	Val	Ala	Ser	Phe	Gly	Asp	Ala	His	Gly	Arg
				725					730					735	
Thr	Pro	Gly	Ala	Leu	Ser	Tyr	Gln	Trp	Thr	His	Gly	Pro	Gln	Gln	Ile
			740					745					750		
Tyr	Lys	Lys	Ile	Val	Val	Ser	His	Asp	Ser	Lys	Thr	Leu	Leu	Gly	Gly
		755					760					765			
Val	Leu	Val	Gly	Asp	Ala	Ser	Glu	Tyr	Ala	Thr	Leu	Val	Gln	Met	Met
		770				775					780				
Leu	Asn	Gly	Ile	Ser	Leu	Pro	Lys	Glu	Pro	Glu	Thr	Leu	Ile	Leu	Pro
785					790					795					800
Val	Ser	Ser	Gly	Ser	Ala	Pro	Lys	Ala	Leu	Gly	Val	Ala	Ala	Leu	Pro
				805					810					815	
Glu	Ser	Ala	Gln	Ile	Cys	Ser	Cys	His	Asn	Val	Ser	Lys	Gly	Asp	Ile
			820					825					830		
Cys	Gln	Ala	Val	Ser	Ala	Gly	Ala	Thr	Asp	Ile	Gly	Ala	Ile	Lys	Gln
		835					840					845			
Cys	Thr	Lys	Ala	Ala	Thr	Gly	Cys	Gly	Gly	Cys	Ser	Ala	Leu	Val	Lys
		850				855					860				
Gln	Val	Met	Glu	Phe	Gln	Leu	Ala	Glu	Gln	Gly	Val	Glu	Val	Lys	Lys
865					870					875					880
Asp	Ile	Cys	Glu	His	Phe	Pro	Tyr	Ser	Arg	Gln	Glu	Ile	Tyr	His	Leu
				885					890					895	
Val	Arg	Val	Asn	His	Ile	Arg	Thr	Phe	Asp	Gln	Leu	Ile	Ser	Arg	Tyr
			900					905					910		
Gly	Gln	Gly	His	Gly	Cys	Glu	Ile	Cys	Lys	Pro	Leu	Val	Gly	Ser	Val
		915					920					925			
Leu	Ala	Ser	Cys	Trp	Asn	Glu	Tyr	Leu	Leu	Lys	Pro	Ala	His	Leu	Pro
		930				935					940				
Leu	Gln	Asp	Thr	Asn	Asp	Arg	Phe	Phe	Ala	Asn	Ile	Gln	Lys	Asp	Gly
945					950					955					960
Thr	Tyr	Ser	Ile	Val	Pro	Arg	Met	Pro	Ala	Gly	Glu	Val	Thr	Ala	Asp
				965					970					975	
Gly	Leu	Ile	Ala	Ile	Gly	Gln	Ile	Ala	Lys	Arg	Tyr	Ser	Leu	Tyr	Ser
			980					985					990		
Lys	Ile	Thr	Gly	Gly	Gln	Arg	Ile	Asp	Leu	Phe	Gly	Ala	Thr	Leu	Glu
		995					1000					1005			
Gln	Leu	Pro	Glu	Ile	Trp	Gln	Ala	Leu	Val	Glu	Ala	Gly	Phe	Glu	Thr
		1010				1015					1020				
Gly	His	Ala	Tyr	Gly	Lys	Ser	Leu	Arg	Thr	Val	Lys	Ser	Cys	Val	Gly
1025					1030					1035					1040
Ser	Thr	Trp	Cys	Arg	Tyr	Gly	Val	Gln	Asp	Ser	Thr	Gly	Leu	Ala	Val
				1045					1050					1055	
Arg	Leu	Glu	His	Arg	Tyr	Lys	Gly	Leu	Arg	Ala	Pro	His	Lys	Ile	Lys
			1060					1065					1070		
Met	Ala	Val	Ser	Gly	Cys	Thr	Arg	Glu	Cys	Ala	Glu	Ala	Gln	Ser	Lys
		1075					1080					1085			
Asp	Val	Gly	Val	Ile	Ala	Thr	Asp	Lys	Gly	Trp	Asn	Leu	Tyr	Leu	Cys
		1090				1095					1100				
Gly	Asn	Gly	Gly	Met	Lys	Pro	Arg	His	Ala	Asp	Leu	Phe	Ala	Ser	Asp
1105					1110					1115					1120
Leu	Asp	Asp	Glu	Thr	Leu	Ile	Arg	Thr	Ile	Asp	Arg	Phe	Leu	Met	Phe
				1125					1130					1135	
Tyr	Ile	Arg	Thr	Ala	Asp	Arg	Leu	Gln	Arg	Thr	Ser	Thr	Trp	Met	Asp
			1140					1145					1150		
Asn	Leu	Glu	Gly	Gly	Leu	Asp	Tyr	Leu	Arg	Glu	Val	Ile	Leu	Asn	Asp

1155 1160 1165
 Ser Leu Gly Ile Ala His Glu Leu Glu Gln Glu Met Ala Arg Val Met
 1170 1175 1180
 Glu Thr Tyr Gln Cys Glu Trp Gln Thr Thr Leu Asn Asp Pro Asp Arg
 1185 1190 1195 1200
 Leu Ala Leu Phe Arg Thr Ala Val Asn Val Pro Ala Ala Glu Glu Asn
 1205 1210 1215
 Lys Arg Trp Gln Glu Ile Cys Asn Ile Asp Glu Ile Pro Glu Gln Ala
 1220 1225 1230
 Gly Ile Gly Ala His Leu Gly Arg Lys Pro Ile Ala Leu Phe Arg Phe
 1235 1240 1245
 Gly Lys Asn Val Tyr Ala Leu Asp Asp Arg Glu Pro Gly Ser Arg Ala
 1250 1255 1260
 Asn Val Leu Ser Arg Gly Ile Leu Gly Asp Ala Ala Gly Glu Pro Val
 1265 1270 1275 1280
 Val Ile Ser Pro Leu Tyr Lys Gln Arg Ile Arg Leu Arg Asp Gly Cys
 1285 1290 1295
 Gln Val Glu Asn Gly Glu Pro Val Val Arg Ala Trp Pro Val Lys Ile
 1300 1305 1310
 Glu Asn Gly Lys Val Trp Val Gly Asn Glu Glu Leu Val Met Arg Ala
 1315 1320 1325
 Glu Ala Ser
 1330

<210> 8690

<211> 194

<212> PRT

<213> Enterobacter cloacae

<400> 8690

Glu Ile Met Arg Tyr Leu Ser Lys Asp Glu Arg Arg Glu Glu Ile Leu
 1 5 10 15
 Gln Ala Ala Met Arg Val Ala Leu Thr Glu Gly Phe Ala Ala Met Thr
 20 25 30
 Val Arg Arg Ile Ala Thr Glu Ala Gly Val Ala Thr Gly Gln Leu His
 35 40 45
 His His Phe Ala Ser Ala Gly Glu Leu Lys Ser Leu Ala Phe Val Arg
 50 55 60
 Leu Ile Arg Asp Leu Leu Asp Ala Glu Ile Val Gly Glu Asn Ala Gly
 65 70 75 80
 Trp Arg Glu Arg Leu His Ala Met Leu Gly Ser Asp Asp Gly Gly Phe
 85 90 95
 Glu Pro Tyr Ile Arg Leu Trp Arg Glu Ala Gln Ile Leu Ala Ser Arg
 100 105 110
 Asp Ser Asp Ile Lys Gly Ala Tyr Val Leu Thr Met Glu Met Trp His
 115 120 125
 Gln Glu Thr Val Ala Ile Ile Arg Ala Gly Ala Glu Ala Asn Ala Phe
 130 135 140
 Thr Leu Ala Asp Gln Pro Glu Asn Ile Ala Trp Arg Leu Ile Gly Leu
 145 150 155 160
 Val Cys Gly Leu Asp Gly Ile Tyr Val Leu Asn Met Pro Glu Met Asp
 165 170 175
 Asp Ala Ala Phe Asn Lys His Leu Asp Lys Leu Ile Ser Leu Glu Leu
 180 185 190
 Phe

<210> 8691

<211> 306

<212> PRT

<213> Enterobacter cloacae

<400> 8691

Arg Asp Val Pro Leu Ser Gly Asp Cys Gln Leu Arg Arg Pro Leu Arg
 1 5 10 15
 Asp Pro His Gln Pro Pro Arg Asn Gly Thr Arg Arg Phe Pro Gly Glu
 20 25 30
 Lys Arg Leu Arg Leu His Leu Arg Arg Arg Leu Ser Arg Leu Arg His
 35 40 45
 Lys Ile Gln Pro Leu Gln Gln Gln Pro His Arg Arg Asp Gln His His
 50 55 60
 Arg Ser Ala Arg Ser Arg Gly Gly Arg Val Met Gln Ile Leu Lys Ile
 65 70 75 80
 Ile Ala Leu Leu Ile Glu Tyr Pro Asp Glu Leu Leu Trp Glu Asn Arg
 85 90 95
 Asp Glu Ala Leu Ser Leu Val Glu Gln Asp Ala Pro Met Leu Leu Pro
 100 105 110
 Phe Ala Gln Gln His Leu Ser Ala Pro Leu Leu Asp Lys Gln Ala Glu
 115 120 125
 Trp Cys Glu Val Phe Glu Arg Gly Arg Ala Thr Ser Leu Leu Leu Phe
 130 135 140
 Glu His Val His Ala Glu Ser Arg Asp Arg Gly Gln Ala Met Val Asp
 145 150 155 160
 Leu Met Ser Gln Tyr Glu Lys Ala Gly Leu Glu Leu Asp Cys Arg Glu
 165 170 175
 Leu Pro Asp Tyr Leu Pro Leu Tyr Leu Glu Tyr Leu Ser Ile Val Ser
 180 185 190
 Asp Asp Glu Ala Arg Glu Gly Leu Gln Asn Val Ala Pro Ile Leu Ala
 195 200 205
 Leu Ile Gly Gly Arg Leu Lys Gln Arg Glu Val Ala His Tyr Gln Leu
 210 215 220
 Phe Asp Ala Leu Leu Ser Leu Ala Glu Thr Arg Leu Ser Ser Asp Ser
 225 230 235 240
 Val Ala Lys Gln Val Ser Gly Glu Lys Arg Asp Asp Thr Arg Gln Ala
 245 250 255
 Leu Asp Ala Val Trp Glu Glu Glu Gln Val Lys Phe Ile Glu Asp Asn
 260 265 270
 Ala Thr Ser Cys Asp Ser Ser Pro Met Gln Gln Tyr Gln Arg Arg Phe
 275 280 285
 Ser Gln Asp Val Ala Pro Gln Tyr Val Asp Val Ser Ala Gly Gly Pro
 290 295 300
 Lys
 305

<210> 8692

<211> 255

<212> PRT

<213> Enterobacter cloacae

<400> 8692

Met Gln Pro Pro Gln Gly Ile Asp Ile Asn Leu Tyr Gly Leu Leu Pro
 1 5 10 15
 Ala Arg Ala Gly Lys Ile Ser Thr Gln Lys Trp Gly His Asp Leu Leu
 20 25 30
 Gln Glu Val Ile Ser Pro Val Tyr Lys Leu Phe Ser Leu Leu His Met
 35 40 45
 Arg Lys Ser Ala Phe Ser Ser Tyr Ser Ser Cys Thr Arg Gly Asp Pro
 50 55 60
 Met Ser His Phe Arg Pro Val Glu Leu Arg His Ala Ser Arg Leu Leu
 65 70 75 80
 Asn His Gly Pro Thr Val Leu Ile Thr Ser Arg Asp Glu Thr Ile Asp
 85 90 95

Arg	Arg	Asn	Val	Met	Ala	Ala	Ala	Trp	Ser	Met	Pro	Val	Glu	Phe	Glu
			100					105					110		
Pro	Pro	Arg	Ile	Ala	Ile	Val	Val	Asp	Lys	Ser	Ala	Trp	Ser	Arg	Glu
		115					120					125			
Leu	Ile	Glu	Arg	Ser	Gly	Lys	Phe	Gly	Ile	Val	Ile	Pro	Gly	Val	Ala
	130				135						140				
Ala	Ala	Asn	Trp	Thr	Trp	Ala	Val	Gly	Ser	Val	Ser	Gly	Arg	Asp	Glu
145					150					155				160	
Asp	Lys	Phe	Asn	Cys	Tyr	Gly	Ile	Pro	Val	Ile	Tyr	Gly	Pro	Glu	Leu
			165					170						175	
Asp	Leu	Pro	Val	Ile	Glu	Glu	Lys	Cys	Leu	Ala	Trp	Met	Glu	Cys	Arg
		180						185					190		
Leu	Leu	Pro	Val	Thr	Ser	Ala	Ala	Glu	Lys	Tyr	Asp	Thr	Leu	Phe	Gly
		195					200					205			
Glu	Val	Val	Ser	Ala	Ala	Ala	Asp	Glu	Arg	Ala	Phe	Val	Ala	Gly	Arg
	210				215						220				
Trp	Gln	Phe	Asp	Gly	Asp	Lys	Leu	Asn	Thr	Leu	His	His	Met	Gly	Ala
225				230						235					240
Gly	Thr	Phe	Val	Ala	Ser	Gly	Lys	Met	Val	Lys	Ala	Leu	Glu		
			245						250					255	

<210> 8693

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 8693

Gly	Ala	Pro	Val	Ala	Ser	Val	Ser	Ile	Ser	Cys	Pro	Ser	Cys	Ser	Ala
1			5					10					15		
Thr	Asp	Gly	Val	Val	Arg	Asn	Gly	Lys	Ser	Thr	Ala	Gly	His	Gln	Arg
		20					25					30			
Tyr	Leu	Cys	Ser	His	Cys	Arg	Lys	Thr	Trp	Gln	Leu	Gln	Phe	Thr	Tyr
	35						40				45				
Thr	Ala	Ser	Gln	Pro	Gly	Thr	His	Gln	Lys	Ile	Ile	Asp	Met	Ala	Met
	50				55					60					
Asn	Gly	Val	Gly	Cys	Arg	Ala	Thr	Ala	Arg	Ile	Met	Gly	Val	Gly	Leu
65				70					75						80
Asn	Thr	Ile	Phe	Arg	His	Leu	Lys	Asn	Ser	Gly	Arg	Ser	Arg		
			85					90						95	

<210> 8694

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 8694

Phe	Arg	Gly	Leu	Leu	Ala	Ala	Ala	Gly	Arg	Asp	Ile	Cys	Ser	Tyr	Gly
1			5					10					15		
Asp	Gln	Asp	Leu	Val	Glu	Tyr	Val	Asp	Val	Gly	Ala	Ser	Tyr	Tyr	Phe
	20						25					30			
Asn	Lys	Asn	Met	Ser	Thr	Tyr	Val	Asp	Tyr	Lys	Ile	Asn	Leu	Val	Asp
	35						40				45				
Asp	Ser	Gln	Phe	Thr	Lys	Asp	Ala	Lys	Val	Ala	Thr	Asp	Asn	Ile	Val
	50				55					60					
Ala	Val	Gly	Leu	Thr	Tyr	Gln	Phe								
65					70										

<210> 8695

<211> 491

<212> PRT

<213> Enterobacter cloacae

<400> 8695

His	Pro	Ile	Ile	Pro	Thr	Ser	His	Arg	Lys	Val	Ser	Phe	Cys	Phe	Tyr
1				5					10					15	
Leu	Ile	Phe	Ser	Leu	His	Leu	Gly	Lys	Gln	Glu	Gly	Asp	Met	Ser	His
			20					25					30		
Gln	Ser	Glu	Lys	Ser	Asn	Gln	His	Leu	Leu	Ser	Asn	Trp	Lys	Pro	Glu
			35				40					45			
Asn	Ala	Gln	Phe	Trp	Glu	Asn	Lys	Gly	Lys	His	Ile	Ala	Arg	Arg	Asn
	50					55					60				
Leu	Trp	Ile	Ser	Val	Ala	Cys	Leu	Leu	Leu	Ala	Phe	Cys	Val	Trp	Met
65					70					75					80
Leu	Phe	Ser	Ala	Ile	Ala	Val	Asn	Leu	Asn	Lys	Val	Gly	Phe	Asn	Phe
				85					90					95	
Ser	Thr	Asp	Gln	Leu	Phe	Met	Leu	Thr	Ala	Leu	Pro	Ser	Leu	Ser	Gly
			100					105					110		
Ala	Ile	Leu	Arg	Val	Pro	Tyr	Ser	Phe	Met	Val	Pro	Ile	Phe	Gly	Gly
			115					120					125		
Arg	Tyr	Trp	Thr	Val	Leu	Ser	Thr	Val	Ile	Leu	Val	Val	Pro	Cys	Val
	130					135					140				
Trp	Leu	Gly	Ile	Ala	Ile	Gln	Asn	Thr	Ala	Thr	Pro	Tyr	Trp	Val	Phe
145					150					155					160
Ile	Ile	Ile	Ala	Leu	Leu	Cys	Gly	Phe	Ala	Gly	Ala	Asn	Phe	Ala	Ser
				165					170					175	
Ser	Met	Gly	Asn	Ile	Ser	Phe	Phe	Phe	Pro	Lys	Ala	Arg	Gln	Gly	Ser
			180					185					190		
Ala	Leu	Gly	Ile	Asn	Gly	Gly	Leu	Gly	Asn	Leu	Gly	Val	Ser	Val	Met
	195						200					205			
Gln	Leu	Val	Ala	Pro	Leu	Val	Ile	Phe	Leu	Pro	Met	Phe	Thr	Phe	Leu
	210					215					220				
Gly	Val	His	Gly	Val	Pro	Gln	Glu	Asp	Gly	Ser	Thr	Met	Trp	Leu	Ala
225					230					235					240
Asn	Ala	Ala	Trp	Ile	Trp	Ala	Pro	Leu	Leu	Ile	Leu	Ala	Thr	Leu	Ala
				245					250					255	
Ala	Phe	Phe	Gly	Met	Asn	Asp	Ile	Ala	Ser	Ser	Lys	Ala	Ser	Ile	Ala
			260					265					270		
Ser	Gln	Leu	Pro	Val	Leu	Lys	Arg	Phe	His	Leu	Trp	Leu	Leu	Ser	Leu
	275						280					285			
Leu	Tyr	Leu	Ala	Thr	Phe	Gly	Ser	Phe	Ile	Gly	Phe	Ser	Ala	Gly	Phe
	290					295					300				
Ala	Met	Leu	Ser	Lys	Thr	Gln	Phe	Pro	Asp	Val	Asn	Ile	Leu	His	Leu
305					310					315					320
Ala	Phe	Phe	Gly	Pro	Leu	Ile	Gly	Ala	Leu	Ala	Arg	Ser	Ala	Gly	Gly
				325					330					335	
Met	Ile	Ser	Asp	Arg	Leu	Gly	Gly	Val	Arg	Val	Thr	Leu	Ile	Asn	Phe
			340					345					350		
Val	Phe	Met	Ala	Ile	Phe	Ser	Ala	Leu	Ile	Phe	Leu	Thr	Leu	Pro	Gly
		355						360				365			
Ser	Gly	Ser	Gly	Ser	Phe	Ile	Ala	Phe	Tyr	Leu	Val	Phe	Met	Gly	Leu
	370					375					380				
Phe	Leu	Thr	Ala	Gly	Leu	Gly	Ser	Gly	Ser	Thr	Phe	Gln	Met	Ile	Ala
385					390					395					400
Ile	Ile	Phe	Arg	Gln	Ile	Thr	Leu	Asp	Arg	Val	Lys	Lys	Gln	Gly	Gly
				405					410					415	
Ser	Asp	Glu	Gln	Ala	Gln	His	Glu	Ala	Val	Thr	Glu	Thr	Ala	Ala	Ala
			420					425					430		
Leu	Gly	Phe	Ile	Ser	Ala	Ile	Gly	Ala	Val	Gly	Gly	Phe	Phe	Ile	Pro
		435					440					445			
Lys	Ala	Phe	Gly	Thr	Ser	Leu	Ala	Met	Thr	Gly	Ser	Pro	Val	Gly	Ala
	450					455					460				
Met	Lys	Val	Phe	Leu	Val	Phe	Tyr	Ile	Val	Cys	Val	Leu	Val	Thr	Trp

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<210> 8696
<211> 530
<212> PRT
<213> Enterobacter cloacae
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<400>	8696														
Leu	Ala	Gly	Arg	Arg	Arg	Ser	Gly	Ser	Gly	Thr	Gly	Gly	Glu	Lys	Met
1				5					10					15	
Lys	Ile	Arg	Ser	Gln	Val	Gly	Met	Val	Leu	Asn	Leu	Asp	Lys	Cys	Ile
			20					25					30		
Gly	Cys	His	Thr	Cys	Ser	Val	Thr	Cys	Lys	Asn	Val	Trp	Thr	Gly	Arg
		35					40					45			
Glu	Gly	Met	Glu	Tyr	Ala	Trp	Phe	Asn	Asn	Val	Glu	Thr	Lys	Pro	Gly
	50					55				60					
Ile	Gly	Tyr	Pro	Lys	Asn	Trp	Glu	Asp	Gln	Asp	Glu	Trp	Gln	Gly	Gly
65				70					75					80	
Trp	Ile	Arg	Gly	Ile	His	Gly	Lys	Leu	Thr	Pro	Arg	Leu	Gly	Gly	Lys
				85					90					95	
Met	Gly	Val	Leu	Ser	Lys	Ile	Phe	Ala	Asn	Pro	Val	Leu	Pro	Gln	Ile
			100					105					110		
Asp	Asp	Tyr	Glu	Pro	Phe	Thr	Phe	Asp	Tyr	Gln	Asp	Leu	His	Arg	
		115				120				125					
Ala	Pro	Glu	Gly	Asp	His	Leu	Pro	Thr	Ala	Arg	Pro	Arg	Ser	Leu	Ile
	130					135				140					
Asp	Gly	Lys	Arg	Met	Asp	Lys	Ile	Val	Trp	Gly	Pro	Asn	Trp	Glu	Glu
145				150					155					160	
Leu	Leu	Gly	Gly	Glu	Phe	Glu	Lys	Arg	Ala	Arg	Asp	Arg	Asn	Phe	Gln
				165					170					175	
Lys	Ile	Gln	Lys	Glu	Met	Tyr	Gly	Gln	Phe	Glu	Asn	Thr	Phe	Met	Met
			180					185					190		
Tyr	Leu	Pro	Arg	Leu	Cys	Glu	His	Cys	Leu	Asn	Pro	Ser	Cys	Val	Ala
		195				200					205				
Thr	Cys	Pro	Ser	Gly	Ala	Ile	Tyr	Lys	Arg	Glu	Glu	Asp	Gly	Ile	Val
	210					215					220				
Leu	Ile	Asp	Gln	Asp	Lys	Cys	Arg	Gly	Trp	Arg	Leu	Cys	Ile	Ser	Gly
225				230					235					240	
Cys	Pro	Tyr	Lys	Lys	Ile	Tyr	Phe	Asn	Trp	Lys	Ser	Gly	Lys	Ser	Glu
				245					250					255	
Lys	Cys	Ile	Phe	Cys	Tyr	Pro	Arg	Ile	Glu	Ser	Gly	Gln	Pro	Thr	Val
			260					265					270		
Cys	Ser	Glu	Thr	Cys	Val	Gly	Arg	Ile	Arg	Tyr	Leu	Gly	Val	Leu	Leu
		275				280						285			
Tyr	Asp	Ala	Asp	Arg	Ile	Glu	Glu	Ala	Ala	Ser	Thr	Glu	His	Glu	Thr
	290					295				300					
Asp	Leu	Tyr	Glu	Arg	Gln	Cys	Asp	Val	Phe	Leu	Asn	Pro	Asn	Asp	Pro
305				310					315					320	
Ala	Val	Ile	Glu	Glu	Ala	Leu	Lys	Gln	Gly	Ile	Pro	Gln	Asn	Val	Ile
				325					330					335	
Asp	Ala	Ala	Gln	Arg	Ser	Pro	Val	Tyr	Lys	Met	Ala	Met	Asp	Trp	Lys
			340					345							

405 410 415
 Val Leu Arg Ala Leu Lys Arg Met Met Ala Met Arg His Tyr Lys Arg
 420 425 430
 Ser Gln Thr Val Glu Gly Val Thr Asp Thr Arg Ala Ile Glu Glu Val
 435 440 445
 Gly Leu Thr Glu Ala Gln Val Glu Glu Met Tyr Arg Tyr Leu Ala Ile
 450 455 460
 Ala Asn Tyr Glu Asp Arg Phe Val Ile Pro Thr Ser His Arg Glu Met
 465 470 475 480
 Ala Arg Asp Ala Phe Pro Glu Lys Asn Gly Cys Gly Phe Thr Phe Gly
 485 490 495
 Asp Gly Cys His Gly Ser Asp Thr Lys Phe Asn Leu Phe Asn Ser Ser
 500 505 510
 Arg Ile Asp Ala Ile Asn Ile Thr Glu Val Arg Asp His Gly Glu Gly
 515 520 525
 Glu
 530

<210> 8697
 <211> 78
 <212> PRT
 <213> Enterobacter cloacae

<400> 8697
 Cys Cys Gln Leu Thr Asp Leu Val Tyr Asp Gly Val Phe Glu Val Leu
 1 5 10 15
 Gln Trp Leu Leu Phe Leu Ser Ala Val Pro Pro Val Gln Leu Leu Thr
 20 25 30
 Gly Trp Cys Val Thr Ala Lys Ala Leu Pro Asp Ile Ser Ala Ile Ser
 35 40 45
 Ala Leu Thr Ala Val Lys His Gly Asn Cys Ser Ser Leu Thr Pro Leu
 50 55 60
 Leu Asn Pro Val Arg Thr Arg Lys Ser Leu Ile Trp Pro
 65 70 75

<210> 8698
 <211> 115
 <212> PRT
 <213> Enterobacter cloacae

<400> 8698
 Pro Ile Val Asp Ile Ala Gln Ser His Ala Arg Arg Arg Lys Thr Met
 1 5 10 15
 Ile Pro Asn His Pro Glu Pro Glu Gln Ile Val Leu Glu Asn Val Leu
 20 25 30
 Phe Ala Leu Gly Asn Pro Leu Arg Leu Ala Ile Ile Arg Arg Leu Ala
 35 40 45
 Asp Gly Ser Glu Leu Ser Cys Asn Ala Leu Arg Pro Glu Glu Val Val
 50 55 60
 Lys Ser Thr Met Thr His His Trp Arg Val Leu Arg Asp Ser Gly Val
 65 70 75 80
 Ile Trp Gln Arg Pro Gln Gly Arg Glu Asn Met Ile Ser Leu Arg Arg
 85 90 95
 Glu Asp Leu Asp Thr Arg Phe Pro Gly Leu Leu Ala Ile Leu Leu Gln
 100 105 110
 Ala Lys
 115

<210> 8699
 <211> 299
 <212> PRT

<213> Enterobacter cloacae

<400> 8699

Ala Ala Met Leu Lys Asp Asn Phe Asn Asp Leu Leu Ser Phe Met Val
 1 5 10 15
 Val Ala Arg Glu Arg Ser Phe Thr Arg Ala Ala Ala Gln Leu Gly Val
 20 25 30
 Ser Gln Ser Ala Leu Ser His Ala Met Arg Asn Leu Glu Ala Arg Leu
 35 40 45
 Glu Val Arg Leu Leu Thr Arg Thr Thr Arg Ser Val Ala Pro Thr Glu
 50 55 60
 Ala Gly Glu Gln Leu Phe Met Arg Leu Ser Pro His Leu Leu Glu Ile
 65 70 75 80
 Glu Gln Glu Leu Thr Ala Leu Arg Asp Thr Arg Asp Arg Pro Ala Gly
 85 90 95
 Asn Ile Arg Leu Asn Ala Gly Glu His Ala Met Ser Thr Val Leu Trp
 100 105 110
 Pro Val Leu Lys Pro Phe Met Ala Gln Tyr Pro Asp Ile Asn Val Glu
 115 120 125
 Val Thr Val Asp Asn Gly Leu Thr Asp Ile Val Asp Gly Arg Phe Asp
 130 135 140
 Ala Gly Val Arg Leu Gly Glu Gln Val Ala Lys Asp Met Ile Ala Val
 145 150 155 160
 Arg Ile Ala Pro Asp Met Arg Met Ala Val Val Gly Ser Ala Glu Tyr
 165 170 175
 Leu Gln Arg Phe Gly Ile Pro Lys Thr Pro Glu Gln Leu Asp Gln His
 180 185 190
 Arg Cys Ile Asn Met Arg Leu Pro Thr Arg Gly Gly Leu Tyr Ala Trp
 195 200 205
 Glu Phe Glu Arg Asp Gly Arg Glu Leu Arg Val Arg Val Asp Gly Gln
 210 215 220
 Leu Ile Leu Asn Ser Leu Pro Gln Arg Ile Asp Ala Ala Glu Asn Gly
 225 230 235 240
 Leu Gly Leu Ala Tyr Val Pro Gln Asp Ala Val Gln Asp Ala Leu Ala
 245 250 255
 Lys Gly Arg Leu Val Gly Val Leu Glu Ala Trp Cys Pro Ala Phe Thr
 260 265 270
 Gly Tyr His Leu Tyr Tyr Pro Ser Arg Arg Gln His Thr Thr Ala Phe
 275 280 285
 Ala Leu Leu Ile Ala Ala Leu Arg His Thr
 290 295

<210> 8700

<211> 533

<212> PRT

<213> Enterobacter cloacae

<400> 8700

Leu Glu Arg Gln His Val Ser Ala Gln Lys Gln Ser Phe Val Ser Ala
 1 5 10 15
 Ser Ala Arg Gln Asp Tyr His Val Asn Gly Ser Asp Arg Gln Thr Gly
 20 25 30
 Asn Ser Met Lys Thr Ser Asn Lys Ser Ala Ala Asp His His Ala Ala
 35 40 45
 Lys Arg Arg Trp Leu Asn Ser His Glu Glu Gly Tyr His Lys Ala Met
 50 55 60
 Gly Asn Arg Gln Val Gln Met Ile Ala Ile Gly Gly Ala Ile Gly Thr
 65 70 75 80
 Gly Leu Phe Leu Gly Ala Gly Ala Arg Leu Gln Met Ala Gly Pro Ala
 85 90 95
 Leu Ala Leu Val Tyr Leu Val Cys Gly Ile Phe Ser Phe Phe Ile Leu

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<210> 8701
<211> 332
<212> PRT
<213> Enterobacter cloacae
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<400> 8701

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Pro Val Tyr Ser Met Lys Ile Ile Thr Ala Arg Lys Ala Ser Leu Pro
1      5      10
Leu Leu Phe Ala Pro Val Ile Phe Gly Pro Leu Ser Ala Met Ala Ala
20      25      30
Asp Glu Gln Thr Leu Ile Val Ser Ala Thr Pro Gln Thr Val Ser Glu
35      40      45
Leu Asp Thr Pro Ala Ala Val Ser Val Val Ser Gly Glu Asp Met Arg
50      55      60
His Ala Thr Pro Arg Ile Asn Leu Ser Glu Ser Leu Gly Ser Val Pro
65      70      75
Gly Leu Gln Ile Gln Asn Arg Gln Asn Tyr Ala Gln Asp Leu Gln Leu
85      90      95
Ser Val Arg Gly Phe Gly Ala Arg Ser Thr Phe Gly Val Arg Gly Ile
100     105     110
Arg Met Tyr Val Asp Gly Ile Pro Ala Thr Met Pro Asp Gly Gln Gly
115     120     125
Gln Thr Ser Asn Ile Asp Leu Asn Ser Ile Glu Ser Val Asp Val Leu
130     135     140
Arg Gly Pro Phe Ser Ala Leu Tyr Gly Asn Ala Ser Gly Gly Val Ile
145     150     155
Asn Ile Asn Thr Gln Thr Gly Gln Gln Pro Ala Thr Ile Glu Ala Ser
165     170     175
Ser Tyr Tyr Gly Ser Tyr Gly Thr Trp Arg Tyr Gly Met Lys Ala Thr
180     185     190
Gly Ala Val Gly Asp Gly Thr Gln Ala Gly Asp Val Asp Tyr Ala Val
195     200     205
Ser Thr Thr Arg Phe Thr Thr His Gly Tyr Arg Asp His Ser Gly Ala
210     215     220
Arg Lys Asn Leu Ala Asn Ala Lys Leu Gly Val Arg Ile Asp Asp Val
225     230     235
Ser Lys Leu Thr Leu Ile Phe Asn Ser Val Asp Met Lys Ala Asn Asp
245     250     255
Pro Gly Gly Leu Ser Tyr Gln Glu Trp Gln Asn Asn Pro Arg Gln Ser
260     265     270
Pro Arg Gly Asp Gln Tyr Asn Thr Arg Lys Thr Ile Lys Gln Thr Gln
275     280     285
Ala Gly Ile Arg Tyr Asp Cys Gln Leu Ser Glu Gln Asp Asp Leu Ser
290     295     300
Val Met Met Tyr Ala Gly Glu Arg Glu Met Thr Gln Tyr Gln Ser Ile
305     310     315
Pro Asp Thr Ala Gln Thr Glu Asn Pro Ala His
325     330

```

<210> 8702

<211> 1261

<212> PRT

<213> Enterobacter cloacae

<400> 8702

```

Cys Leu Thr Leu Arg Pro Cys Tyr Arg Ser Arg Arg Asn Val Met Ser
1      5      10
Lys Leu Leu Asp Arg Phe Arg Tyr Phe Lys Thr Lys Gly Asp Ser Phe
20      25      30
Ala Asp Gly His Gly Gln Val Tyr His Thr Asn Arg Asp Trp Glu Asp
35      40      45
Ser Tyr Arg Gln Arg Trp Gln Phe Asp Lys Ile Val Arg Ser Thr His
50      55      60
Gly Val Asn Cys Thr Gly Ser Cys Ser Trp Lys Ile Tyr Val Lys Asn
65      70      75
Gly Leu Val Thr Trp Glu Thr Gln Gln Thr Asp Tyr Pro Arg Thr Arg

```

										85			90				95			
Pro	Asp	Leu	Pro	Asn	His	Glu	Pro	Arg	Gly	Cys	Pro	Arg	Gly	Ala	Ser					
			100					105					110							
Tyr	Ser	Trp	Tyr	Leu	Tyr	Ser	Ala	Asn	Arg	Leu	Lys	Tyr	Pro	Leu	Val					
			115				120					125								
Arg	Arg	Arg	Leu	Ile	Glu	Leu	Trp	Arg	Glu	Ala	Leu	Ala	Gln	His	Thr					
			130			135					140									
Asp	Pro	Val	Leu	Ala	Trp	Asp	Ala	Ile	Gln	Asn	Asp	Lys	Gln	Lys	Ala					
145					150				155						160					
Gln	Ser	Tyr	Arg	Lys	Ala	Arg	Gly	Lys	Gly	Gly	Phe	Ile	Arg	Ser	Asn					
			165					170						175						
Trp	Lys	Glu	Leu	Asn	Gln	Leu	Ile	Ala	Ala	Ala	Asn	Val	Trp	Thr	Ile					
			180				185					190								
Lys	Asn	Tyr	Gly	Pro	Asp	Arg	Val	Ala	Gly	Phe	Ser	Pro	Ile	Pro	Ala					
			195			200					205									
Met	Ser	Met	Val	Ser	Tyr	Ala	Ala	Gly	Thr	Arg	Tyr	Leu	Ser	Leu	Leu					
			210			215				220										
Gly	Gly	Thr	Cys	Leu	Ser	Phe	Tyr	Asp	Trp	Tyr	Cys	Asp	Leu	Pro	Pro					
225					230				235						240					
Ala	Ser	Pro	Met	Thr	Trp	Gly	Glu	Gln	Thr	Asp	Val	Pro	Glu	Ser	Ala					
			245					250						255						
Asp	Trp	Tyr	Asn	Ser	Ser	Tyr	Ile	Ile	Ala	Trp	Gly	Ser	Asn	Val	Pro					
			260				265						270							
Gln	Thr	Arg	Thr	Pro	Asp	Ala	His	Phe	Phe	Thr	Glu	Val	Arg	Tyr	Lys					
			275				280					285								
Gly	Thr	Lys	Thr	Val	Ala	Ile	Thr	Pro	Asp	Phe	Ser	Glu	Val	Ala	Lys					
			290			295					300									
Leu	Ser	Asp	Gln	Trp	Leu	Ala	Pro	Lys	Gln	Gly	Thr	Asp	Ser	Ala	Leu					
305					310				315						320					
Ala	Met	Ala	Met	Gly	His	Val	Ile	Leu	Lys	Glu	Phe	His	Leu	Asp	Asn					
			325					330					335							
Pro	Ser	Asp	Tyr	Phe	Leu	Asn	Tyr	Cys	Arg	Arg	Tyr	Thr	Asp	Met	Pro					
			340				345					350								
Met	Leu	Val	Leu	Leu	Asp	Glu	Gln	Ala	Asp	Gly	Arg	Val	Val	Pro	Gly					
			355			360						365								
Arg	Met	Leu	Arg	Ala	Ser	Asp	Leu	Ala	Asp	Gly	Leu	Gly	Glu	Thr	Asn					
			370			375					380									
Asn	Pro	Glu	Trp	Lys	Thr	Ile	Ala	Phe	Asp	Val	Ala	Gly	Asn	Leu	Val					
385					390					395					400					
Ala	Pro	Asn	Gly	Ser	Ile	Gly	Phe	Arg	Trp	Gly	Glu	Lys	Gly	Lys	Trp					
			405					410						415						
Asn	Leu	Glu	Ser	Leu	Ala	Ala	Gly	Gln	Glu	Thr	Glu	Leu	Thr	Leu	Ser					
			420				425						430							
Leu	Leu	Ile	Thr	His	Asp	Ser	Val	Ala	Asp	Val	Ala	Phe	Pro	Tyr	Tyr					
			435				440					445								
Gly	Gly	Asn	Glu	Asn	Pro	His	Phe	Arg	Ser	Val	Lys	Gln	Glu	Pro	Val					
			450			455					460									
Leu	Thr	Arg	Arg	Val	Pro	Ser	Lys	Thr	Leu	Thr	Leu	Ala	Asp	Gly	Ser					
465					470					475					480					
Gln	Arg	Arg	Val	Val	Ser	Val	Tyr	Asp	Leu	Val	Leu	Ala	Asn	Tyr	Gly					
			485					490						495						
Leu	Asp	Arg	Gly	Leu	Glu	Asp	Ser	Asn	Ala	Ala	Thr	Asn	Tyr	Ala	Glu					
			500				505						510							
Ile	Lys	Ala	Tyr	Thr	Pro	Ala	Trp	Gly	Glu	Gln	Ile	Thr	Gly	Val	Pro					
			515				520					525								
Ala	Tyr	Leu	Ile	Glu	Lys	Ile	Ala	Arg	Glu	Phe	Ala	Asp	Thr	Ala	His					
			530			535					540									
Lys	Thr	His	Gly	Arg	Ser	Met	Ile	Ile	Leu	Gly	Ala	Gly	Val	Asn	His					
545					550					555					560					
Trp	Tyr	His	Met	Asp	Met	Asn	Tyr	Arg	Gly	Met	Ile	Asn	Met	Leu	Val					
			565					570						575						

Phe	Cys	Gly	Cys	Val	Gly	Gln	Ser	Gly	Gly	Gly	Trp	Ser	His	Tyr	Val
			580					585					590		
Gly	Gln	Glu	Lys	Leu	Arg	Pro	Gln	Thr	Gly	Trp	Leu	Pro	Leu	Ala	Phe
		595					600					605			
Ala	Leu	Asp	Trp	Asn	Arg	Pro	Pro	Arg	Gln	Met	Asn	Ser	Thr	Ser	Tyr
	610					615					620				
Phe	Tyr	Asn	His	Ala	Ser	Gln	Trp	Arg	Tyr	Glu	Lys	Leu	Thr	Ala	Arg
625					630					635					640
Glu	Leu	Leu	Ser	Pro	Leu	Ala	Asp	Ala	Ser	Lys	Phe	Thr	Gly	His	Leu
			645						650					655	
Ile	Asp	Phe	Asn	Val	Arg	Ala	Glu	Arg	Met	Gly	Trp	Leu	Pro	Ser	Ala
			660					665					670		
Pro	Gln	Leu	Asn	Leu	Asn	Pro	Leu	His	Val	Lys	Ala	Arg	Ala	Asn	Ala
		675					680					685			
Ala	Gly	Met	Ser	Pro	Gln	Asp	Tyr	Thr	Val	Gln	Ala	Leu	Lys	Ser	Gly
	690					695					700				
Asp	Ile	Arg	Phe	Ala	Cys	Glu	Gln	Pro	Asp	Asn	Gly	Lys	Asn	His	Pro
705					710					715					720
Arg	Asn	Leu	Phe	Val	Trp	Arg	Ser	Asn	Leu	Leu	Gly	Ser	Ser	Gly	Lys
			725					730						735	
Gly	His	Glu	Tyr	Met	Leu	Lys	Tyr	Leu	Leu	Gly	Thr	Glu	Ser	Gly	Ile
			740					745					750		
Gln	Gly	Glu	Asp	Leu	Gly	Ser	Thr	Asp	Asp	Val	Lys	Pro	Glu	Glu	Val
		755					760					765			
Glu	Trp	Gln	Thr	Ala	Ala	Ile	Glu	Gly	Lys	Leu	Asp	Leu	Leu	Val	Thr
	770					775					780				
Leu	Asp	Phe	Arg	Met	Ser	Ser	Thr	Cys	Leu	Phe	Ser	Asp	Ile	Val	Leu
785				790					795						800
Pro	Thr	Ala	Thr	Trp	Tyr	Glu	Lys	Asp	Asp	Met	Asn	Thr	Ser	Asp	Met
				805					810					815	
His	Pro	Phe	Ile	His	Pro	Leu	Ser	Ala	Ala	Val	Asp	Pro	Ala	Trp	Glu
			820					825					830		
Ser	Arg	Ser	Asp	Trp	Glu	Ile	Tyr	Lys	Gly	Ile	Ala	Lys	Val	Phe	Ser
		835					840					845			
Glu	Val	Cys	Val	Gly	His	Leu	Gly	Thr	Glu	Thr	Asp	Val	Val	Leu	Gln
	850					855					860				
Pro	Leu	Gln	His	Asp	Ser	Pro	Gly	Glu	Leu	Ser	Gln	Pro	Phe	Asp	Ile
865				870					875						880
Leu	Asp	Trp	Arg	Lys	Gly	Glu	Cys	Asp	Leu	Ile	Pro	Gly	Lys	Thr	Ala
				885					890					895	
Pro	Asn	Ile	Ala	Val	Val	Glu	Arg	Asn	Tyr	Pro	Glu	Thr	Tyr	Glu	Arg
			900					905					910		
Phe	Thr	Ala	Leu	Gly	Pro	Leu	Leu	Asp	Thr	Leu	Gly	Asn	Gly	Gly	Lys
		915					920					925			
Gly	Ile	Ser	Trp	Asn	Thr	Gln	Asn	Glu	Val	Asp	Phe	Leu	Gly	Lys	Leu
	930					935					940				
Asn	Tyr	Val	Lys	Leu	Asp	Gly	Pro	Ala	Lys	Gly	Arg	Pro	Arg	Ile	Glu
945				950						955					960
Thr	Ala	Ile	Asp	Ala	Ser	Glu	Val	Ile	Leu	Ala	Leu	Ala	Pro	Glu	Thr
			965						970					975	
Asn	Gly	Gln	Val	Ala	Val	Lys	Ala	Trp	Glu	Ala	Leu	Gly	Glu	Leu	Thr
			980				985						990		
Gly	Arg	Asp	His	Thr	His	Leu	Ala	Leu	Asn	Lys	Glu	Asp	Glu	Lys	Ile
		995					1000					1005			
Arg	Phe	Arg	Asp	Ile	Gln	Ala	Gln	Pro	Arg	Lys	Ile	Ile	Ser	Ser	Pro
	1010					1015					1020				
Thr	Trp	Ser	Gly	Leu	Glu	Ser	Glu	His	Val	Ser	Tyr	Asn	Ala	Gly	Tyr
1025				1030							1035				1040
Thr	Asn	Val	His	Glu	Leu	Ile	Pro	Trp	Arg	Thr	Ile	Ser	Gly	Arg	Gln
			1045						1050					1055	
Gln	Leu	Tyr	Gln	Asp	His	Ala	Trp	Met	Arg	Ala	Phe	Gly	Glu	Ser	Leu

1060										1065					1070				
Val	Ala	Tyr	Arg	Pro	Pro	Ile	Asp	Thr	Arg	Ser	Val	Thr	His	Met	Arg				
1075										1080					1085				
Glu	Ile	Pro	Pro	Asn	Gly	Tyr	Pro	Glu	Lys	Ala	Leu	Asn	Phe	Leu	Thr				
1090										1095					1100				
Pro	His	Gln	Lys	Trp	Gly	Ile	His	Ser	Thr	Tyr	Ser	Glu	Asn	Leu	Leu				
1105										1110					1115				
Met	Gln	Thr	Leu	Ser	Arg	Gly	Gly	Pro	Ile	Val	Trp	Ile	Ser	Glu	Thr				
1125										1130					1135				
Asp	Ala	Arg	Glu	Leu	Gly	Ile	Glu	Asp	Asn	Asp	Trp	Ile	Glu	Ala	Phe				
1140										1145					1150				
Asn	Ala	Asn	Gly	Ala	Leu	Thr	Ala	Arg	Ala	Val	Val	Ser	Gln	Arg	Val				
1155										1160					1165				
Pro	Pro	Gly	Met	Thr	Met	Met	Tyr	His	Ala	Gln	Glu	Arg	Ile	Leu	Asn				
1170										1175					1180				
Ile	Pro	Gly	Ser	Glu	Val	Thr	Gly	Arg	Arg	Gly	Gly	Ile	His	Asn	Ser				
1185										1190					1195				
Val	Thr	Arg	Val	Cys	Pro	Lys	Pro	Thr	His	Met	Ile	Gly	Gly	Tyr	Ala				
1205										1210					1215				
Gln	Leu	Ala	Tyr	Ser	Phe	Asn	Tyr	Tyr	Gly	Thr	Val	Gly	Ser	Asn	Arg				
1220										1225					1230				
Asp	Glu	Phe	Ile	Met	Ile	Arg	Lys	Met	Lys	Asn	Ile	Asn	Trp	Leu	Asp				
1235										1240					1245				
Gly	Glu	Gly	Arg	Asp	Gln	Val	Gln	Glu	Ala	Lys	Lys								
1250										1255					1260				

<210> 8703

<211> 243

<212> PRT

<213> Enterobacter cloacae

<400> 8703

Pro	Gly	Arg	Arg	Ala	Ala	Val	Arg	Gly	Arg	Gln	Arg	Arg	Arg	Pro	Lys
1				5				10					15		
Met	Thr	His	Tyr	Leu	Asn	Val	Phe	Phe	Tyr	Asp	Ile	Tyr	Pro	Tyr	Ile
			20					25					30		
Cys	Ala	Thr	Val	Phe	Phe	Leu	Gly	Ser	Trp	Leu	Arg	Tyr	Asp	Tyr	Gly
			35				40						45		
Gln	Tyr	Thr	Trp	Arg	Ala	Ser	Ser	Ser	Gln	Met	Leu	Ser	Lys	Arg	Gly
			50				55						60		
Met	Asn	Trp	Ala	Ser	Asn	Leu	Phe	His	Ile	Gly	Ile	Leu	Gly	Ile	Phe
					70								75		80
Phe	Gly	His	Leu	Phe	Gly	Met	Leu	Thr	Pro	His	Trp	Met	Tyr	Ala	Trp
				85					90					95	
Phe	Leu	Pro	Ile	Ala	Val	Lys	Gln	Gln	Leu	Ala	Met	Ile	Ala	Gly	Gly
			100					105					110		
Ile	Cys	Gly	Val	Leu	Thr	Leu	Ile	Gly	Gly	Ser	Met	Leu	Leu	Ile	Arg
			115					120					125		
Arg	Leu	Phe	Asn	Gln	Arg	Val	Arg	Ala	Thr	Ser	Thr	Thr	Pro	Asp	Ile
			130				135						140		
Ile	Ile	Met	Ser	Ile	Leu	Leu	Leu	Gln	Cys	Ile	Leu	Gly	Leu	Ser	Thr
					150								155		160
Ile	Pro	Phe	Ser	Ala	Gln	Tyr	Pro	Asp	Gly	Ser	Glu	Met	Met	Lys	Leu
				165					170					175	
Val	Gly	Trp	Ala	Gln	Gly	Ile	Val	Thr	Phe	Lys	Gly	Gly	Ser	Ser	Glu
			180					185					190		
Met	Leu	Ser	Gly	Val	Ala	Pro	Ile	Phe	Arg	Val	His	Leu	Val	Leu	Gly
			195					200					205		
Met	Thr	Ile	Phe	Leu	Ile	Phe	Pro	Phe	Thr	Arg	Leu	Val	His	Val	Trp
			210					215					220		
Ser	Ala	Pro	Phe	Glu	Tyr	Phe	Thr	Arg	Arg	Tyr	Gln	Val	Val	Arg	Ser

225
Arg Arg

230

235

240

<210> 8704
<211> 175
<212> PRT
<213> Enterobacter cloacae

<400> 8704
Tyr Gly His Glu Trp Arg Trp Met Pro Gly Asn Arg Pro His Tyr Gly
1 5 10 15
Arg Trp Pro Gln His Asp Phe Pro Phe Lys Lys Leu Arg Pro Gln
20 25 30
Ser Val Thr Ser Arg Ile Gln Pro Gly Ser Asp Val Ile Val Cys Ala
35 40 45
Glu Met Asp Glu Gln Trp Gly Tyr Val Gly Ala Lys Ser Arg Gln Arg
50 55 60
Trp Leu Phe Tyr Ala Tyr Asp Arg Leu Arg Lys Thr Val Val Ala His
65 70 75 80
Val Phe Gly Glu Arg Thr Met Ala Thr Leu Gly Arg Leu Met Ser Leu
85 90 95
Leu Ser Pro Phe Asp Val Val Ile Trp Met Thr Asp Gly Trp Pro Leu
100 105 110
Tyr Glu Ser Arg Leu Lys Gly Lys Leu His Val Ile Ser Lys Arg Tyr
115 120 125
Thr Gln Arg Ile Glu Arg His Asn Leu Asn Leu Arg Gln His Leu Ala
130 135 140
Arg Leu Gly Arg Lys Ser Leu Ser Phe Ser Lys Ser Val Glu Leu His
145 150 155 160
Asp Lys Val Ile Gly His Tyr Leu Asn Ile Lys His Tyr Gln
165 170 175

<210> 8705
<211> 179
<212> PRT
<213> Enterobacter cloacae

<400> 8705
Leu Thr Leu His Thr Leu Arg Asn Asp Leu Phe Arg His Ile Pro Arg
1 5 10 15
Ser Phe Arg Lys Met Met Glu Phe His Arg Ile Arg Arg Ala Pro Leu
20 25 30
Gly His Arg Ala Gln Arg Gly Gly Ile Thr Lys His Leu Ser Gln Arg
35 40 45
Asp Val Ser Ala Asn Asn Leu Ala Ala Val Leu Leu Cys His Pro Leu
50 55 60
His Gln Ala Ala Thr Gly Gly Glu Ile Ala His Asn Val Pro Gly Ile
65 70 75 80
Leu Phe Arg Arg Phe His Leu Asn Val His Asp Arg Leu Lys Asn Asn
85 90 95
Arg Val Arg Pro Pro Cys Ala Leu Phe Glu Ala Glu Asp Arg Arg His
100 105 110
Ala Glu Gly His Leu Arg Gly Val Asn Val Met Val Arg Thr Lys Arg
115 120 125
Gln Gly Arg Phe His Ile His His Arg Ile Ala Arg Gln His Thr Arg
130 135 140
Ile His Gly Phe Ser Gln Pro Phe Phe His Arg Arg Asp Val Leu Pro
145 150 155 160
Arg His His Pro Ala Phe Gly Gly Ile Phe Lys His Lys Thr Thr Pro
165 170 175

Gly Cys

<210> 8706

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 8706

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Arg Leu Lys Ala Gln Asp His Met Thr Val Leu Pro Phe Pro Ala Gly
1      5      10      15
Leu Ser Asp Lys Phe Thr Phe Tyr Ile Phe His Arg Phe Thr Gln Gly
20      25      30
Phe Thr Val Gly Asp Leu Arg Thr Thr Asn Val Arg Leu Asn Ala Lys
35      40      45
Leu Ala Leu His Ala Val Asp Asp Asp Leu Gln Met Gln Leu Ala His
50      55      60
Pro Gly Asp Asn Arg Leu Thr Gly Leu Phe Val Arg Val Gln Ala Glu
65      70      75      80
Arg Arg Ile Phe Arg Arg Gln Ala Leu
85      90

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<210> 8707

<211> 318

<212> PRT

<213> Enterobacter cloacae

<400> 8707

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Ser Asp Pro His Phe Leu Leu Ile Gly Leu Gly Phe Arg Leu Asn Arg
1      5      10      15
Gln Arg Asn Asn Arg Ile Arg Glu Leu His Pro Phe Lys Gly Asp His
20      25      30
Arg Ile Arg Val Gly Gln Arg Val Thr Gly Gly Asp Val Phe Gln Pro
35      40      45
Asp Thr Gly Cys Asp Ile Pro Cys Ala Gln Leu Val His Leu Met Ala
50      55      60
Ile Val Gly Met His Gln His Asp Ala Pro Asp Thr Leu Phe Leu Ala
65      70      75      80
Leu His Arg Val Val His Arg Val Ala Phe Thr Gln Tyr Ala Gly Ile
85      90      95
Asp Ala Asp Glu Gly Gln Leu Ala Asp Val Arg Ile Ala His Gln Leu
100      105      110
Glu Gly Gln Arg Arg Glu Arg Phe Ile Ile Ala Trp Val Ala Leu Gly
115      120      125
Val Leu Ser Val Phe Val Tyr Pro Ile Asn Ser Gly His Val Gln Trp
130      135      140
Arg Arg His Gln Phe Asn His Arg Val Glu His Ala Leu His Ala Leu
145      150      155      160
Val Leu Glu Ser Ala Ala Ala Gln His Gly Leu Tyr Phe Thr Gly Asp
165      170      175
Ser Pro Asp Pro Gln Ser Phe Asp Asp Phe Arg Phe Ile Gln Phe Ala
180      185      190
Arg Leu Lys Val Leu Ile His Lys Leu Ile Ala Gly Phe Cys Arg Arg
195      200      205
Arg Asp His Phe Phe Ser Pro Arg Leu Gly Gly Thr Gln Gln Ile Val
210      215      220
Arg His Arg Arg Val Ala Lys Cys His Ala Leu Arg Arg Ile Val Pro
225      230      235      240
Gln Asn Gly Ala His Leu Asp Glu Ile His His Ala Gly Glu Val Phe
245      250      255
Phe Cys Pro His Gly Asp His Asn Arg Asp Arg Ile Gly Phe Gln Pro

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<210> 8708
<211> 134
<212> PRT
<213> Enterobacter cloacae
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<210> 8709
<211> 340
<212> PRT
<213> Enterobacter cloacae
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<400> 8709																
Val	Lys	Arg	Glu	Arg	Asn	Met	Ser	Trp	Arg	Ile	Ser	Ile	Leu	Asp	Lys	
1				5					10					15		
Ser	Pro	Val	Ala	Glu	His	Glu	Thr	Ala	Ala	Asp	Ala	Leu	Ala	Arg	Thr	
			20					25					30			
Leu	Ala	Leu	Ala	Gln	Gln	Ala	Glu	Thr	Leu	Gly	Tyr	His	Arg	Phe	Trp	
		35					40					45				
Ile	Ala	Glu	His	His	Asn	Thr	Pro	Gln	Leu	Ala	Ser	Pro	Ser	Pro	Glu	
	50					55					60					
Leu	Leu	Ile	Ala	Trp	Ile	Leu	Gly	Gln	Thr	Lys	Arg	Ile	Arg	Val	Gly	
65					70					75					80	
Ser	Gly	Gly	Val	Met	Leu	Gln	His	Tyr	Ser	Pro	Tyr	Lys	Val	Ala	Glu	
				85					90				95			
Asn	Phe	Asn	Val	Leu	Ala	Ala	Ile	Ala	Pro	Gly	Arg	Val	Asp	Leu	Gly	
			100					105					110			
Val	Gly	Lys	Ala	Pro	Gly	Gly	Leu	Pro	Leu	Ser	Thr	Arg	Ala	Leu	Gln	
		115					120					125				
Tyr	Gly	Leu	Asn	Pro	Gln	Glu	Lys	Gly	Ser	Phe	Ala	Asp	Gln	Leu	Thr	
	130					135					140					
Gln	Leu	Asp	Arg	Trp	Ile	Arg	Pro	Glu	Asn	Gln	Ser	Ala	Glu	Glu	Asp	
145					150					155					160	
Val	Arg	Ala	Thr	Pro	Leu	Pro	Pro	Ala	Pro	Ala	Arg	Gly	Phe	Leu	Leu	
				165					170					175		

Gly Ala Ser Thr Glu Ser Val Leu Leu Ala Ala Ser Leu Asp Trp His
 180 185 190
 Phe Val Phe Ala Ala His Leu Asn Gly Asp Pro Glu Leu Leu Arg Asp
 195 200 205
 Val Val Thr Ala Trp Arg Gln His Ser Val Arg Glu Val Ile Val Ala
 210 215 220
 Val Gln Ala Ile Val Ala Pro Thr Gln Ala Glu Ala Asp Ala Leu Ala
 225 230 235 240
 Gln Lys Val Glu Val Trp Gly Val Glu Leu Ala Asn Gly Gln Arg Val
 245 250 255
 Thr Val Ala Ser Glu Glu Gln Ala Tyr Ala Phe Ala Arg Gln Ala Gly
 260 265 270
 Ser Glu Pro Val Arg Ile Ala Arg Ala Gln Ser Leu Leu Ala Gly
 275 280 285
 Thr Ala Ala Ser Val His Glu Gln Leu Asn Ala Leu His Gln Gln Trp
 290 295 300
 Gly Ile Asp Glu Phe Ile Ile Asp Thr Pro Val Ala Asp Gly Ala Thr
 305 310 315 320
 Arg Val Gln Ser Leu Arg Leu Leu Ala Glu Ala Arg Leu Asn Arg Glu
 325 330 335
 Val Thr Val
 340

<210> 8710

<211> 443

<212> PRT

<213> Enterobacter cloacae

<400> 8710

Phe Glu Val Asn Met Thr Ala His Arg Gln Leu Arg Leu Gly Thr Ile
 1 5 10 15
 Leu His Gly Ala Ser Gly Asn Met Ser Ala Trp Arg His Pro Ala Ala
 20 25 30
 Val Ala Asp Ala Ser Ile Asn Phe Asp Phe Val Lys Glu Thr Ala Leu
 35 40 45
 Lys Ala Glu Glu Gly Lys Leu Asp Phe Ile Phe Val Ala Asp Gly Leu
 50 55 60
 Tyr Ile Asn Glu Lys Ser Ile Pro His Phe Leu Asn Arg Phe Glu Pro
 65 70 75 80
 Leu Thr Val Leu Ser Ala Leu Ala Ser Ile Thr Ser Arg Leu Gly Leu
 85 90 95
 Val Gly Thr Leu Ser Thr Ser Tyr Ser Glu Pro Phe Thr Val Ala Arg
 100 105 110
 Gln Phe Ala Ser Leu Asp His Leu Ser Asn Gly Arg Ala Gly Trp Asn
 115 120 125
 Val Val Thr Ser Pro Leu Glu Gly Ser Ala Arg Asn Phe Ser Arg Glu
 130 135 140
 Lys His Pro Glu His Ala Leu Arg Tyr Arg Ile Ala Asp Glu Tyr Leu
 145 150 155 160
 Asp Val Val Lys Gly Leu Trp Asp Ser Trp Glu Gly Asp Ala Phe Ile
 165 170 175
 Arg Asn Lys Glu Ser Gly Gln Phe Phe Asp Ala Ser Lys Leu His Thr
 180 185 190
 Leu Asp His His Gly Asp Phe Phe Gln Val Ser Gly Pro Leu Asn Ile
 195 200 205
 Gly Arg Thr Pro Gln Gly Arg Pro Ile Val Phe Gln Ala Gly Ala Ser
 210 215 220
 Asp Asp Gly Lys Lys Leu Ala Ala Lys His Ala Asp Ala Ile Phe Thr
 225 230 235 240
 His His Asp Thr Arg Glu Glu Ala Gln Ala Phe Tyr Arg Asp Val Lys
 245 250 255

Gln Gln Leu Glu Ser His Gly Arg Arg Ala Gly Asp Leu His Ile Phe
 260 265 270
 Gln Gly Val Ser Val Ile Val Gly Asn Asp Ala Asp Asp Val Glu Asn
 275 280 285
 Gln Tyr Gln Thr Thr Ala Ala Leu Val Ser Ile Asn Asp Ala Leu Asn
 290 295 300
 Tyr Leu Gly Arg Tyr Phe Glu His His Asp Phe Ser Gln Tyr Pro Leu
 305 310 315 320
 Asp Ala Pro Phe Pro Asp Ile Gly Asp Leu Gly Lys Asn Ser Phe Arg
 325 330 335
 Ser Thr Thr Asp Glu Ile Lys Arg Asn Ala Arg Glu Arg Asn Leu Thr
 340 345 350
 Leu Arg Gln Val Ala Leu Glu Ala Ala Ser Pro Arg Pro Arg Phe Ser
 355 360 365
 Gly Thr Pro Glu Gln Val Ala Asp Gly Leu Gln Ala Trp Phe Glu Glu
 370 375 380
 Lys Ala Ala Asp Gly Phe Ile Ile Gln Gly Gly Thr Pro Asp Thr Phe
 385 390 395 400
 Pro Arg Phe Val Asp Gln Val Val Pro Val Leu Gln Ala Arg Gly Leu
 405 410 415
 Phe Arg Thr Asp Tyr Pro Gly Thr Thr Leu Arg Glu Ser Leu Gly Leu
 420 425 430
 Asp Glu Pro Lys Asn Gln Phe Thr Gln Gln
 435 440

<210> 8711

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 8711

Thr Arg Thr Gly Arg Arg Val Ala Arg Val Arg Ser Pro Leu Arg Gln
 1 5 10 15
 His Arg Ser Leu Phe Met Gln Ala Ser Pro Glu Gly His Ile Ser Ile
 20 25 30
 Thr Gly Val Ser Lys Phe Phe Gly Arg His Lys Ala Leu Asp Asn Val
 35 40 45
 Thr Leu Glu Ile Pro Pro Gly Ser Val Thr Val Ile Leu Gly Pro Ser
 50 55 60
 Gly Ser Gly Lys Ser Thr Leu Leu Arg Ala Ile Asn His Leu Glu Arg
 65 70 75 80
 Val Asp Glu Gly Phe Ile Gln Ile Asp Gly Asp Tyr Ile Gly Tyr Arg
 85 90 95
 Arg Gln Gly Asp Lys Leu Tyr Glu Leu Lys Glu Arg Glu Ile Leu Lys
 100 105 110
 Gln Arg Val Asn Val Gly Tyr Val Phe Gln Asn Phe Asn Leu Phe Pro
 115 120 125
 His Leu Thr Val Leu Glu Asn Leu Ile Glu Ala Pro Ile Ala His Lys
 130 135 140
 Lys Phe Ser Lys Lys Glu Ala Val Glu Asn Ala Tyr Ser Leu Leu Asp
 145 150 155 160
 Val Val Gly Leu Arg Asp Lys Ala Asp Ala Trp Ser Arg His Leu Ser
 165 170 175
 Gly Gly Gln Gln Gln Arg Ile Ala Ile Ala Arg Ala Leu Ala Leu Arg
 180 185 190
 Pro Arg Val Met Leu Phe Asp Glu Pro Thr Ser Ala Leu Asp Pro Glu
 195 200 205
 Leu Val Gly Glu Val Leu Asp Val Ile Lys Lys Leu Ala Arg Ser Gly
 210 215 220
 Thr Thr Leu Val Val Val Thr His Glu Ile Gly Phe Ala Arg Glu Val
 225 230 235 240

Ala Asp Gln Val Val Phe Met Val Asp Gly Lys Ile Val Glu Gln Gly
 245 250 255
 Ser Ser Asp Asp Val Leu Asn Arg Pro Ser His Pro Arg Thr Arg Gln
 260 265 270
 Phe Leu Ser Lys Val Leu
 275

<210> 8712

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 8712

Gly Ala Gln Met Lys Tyr Gly Leu Leu Ala Gly Leu Val Phe Thr Thr
 1 5 10 15
 Ala Ser His Ala Ser Ile Asp Leu Lys Ala Asn Glu Gln Pro Leu Pro
 20 25 30
 Val Thr Val Asp Gln Gln Ala Val Ala Lys Ile Pro Ala Asn Tyr Lys
 35 40 45
 Phe Val Glu Pro Gly Thr Leu Thr Val Ala Ile Ser Ala Leu Asn Ser
 50 55 60
 Pro Pro Leu Ala Leu Leu Ala Ser Asp Asn Arg Thr Arg Ile Gly Ser
 65 70 75 80
 Asp Pro Asp Ile Ala Arg Leu Leu Ala Gly Ser Leu Gly Leu Lys Leu
 85 90 95
 Lys Leu Val Pro Thr Ala Trp Glu Asp Trp Pro Leu Gly Ile Thr Ser
 100 105 110
 Gly Arg Tyr Asp Val Ala Leu Val Asn Ile Ala Val Thr Glu Gln Arg
 115 120 125
 Lys Glu Lys Phe Asp Phe Ala Thr Tyr Arg Val Asp Ser Leu Ala Phe
 130 135 140
 Ser Val Lys Ser Thr Ser Asn Val Gln Ser Ile Thr Ser Ala Lys Asp
 145 150 155 160
 Leu Ala Gly Lys Lys Val Ile Val Gly Ser Gly Thr Asn Gln Glu Arg
 165 170 175
 Ile Leu Leu Gly Trp Asn Glu Glu Asn Lys Lys Ala Gly Arg Glu Pro
 180 185 190
 Ala Leu Pro Val Tyr Leu Thr Asp Asp Ala Ser Gly Asn Leu Tyr Ile
 195 200 205
 Gln Ser Gly Arg Ala Asp Val Phe Phe Gly Pro Gln Ser Val Ser Ala
 210 215 220
 Tyr Lys Ala Ala Leu Thr Gly Lys Thr Arg Val Val Gly Leu Gly Pro
 225 230 235 240
 Lys Lys Ala Tyr Val Ala Thr Thr Thr Lys Lys Gly Asn Gly Leu Val
 245 250 255
 Tyr Ala Leu Gln Ala Ala Leu Asp Gly Ala Ile Lys Arg Gly Glu Tyr
 260 265 270
 Gln Lys Val Leu Ala Arg Trp Gly Glu Ala Gly Glu Ala Val Thr Ser
 275 280 285
 Ser Asp Val Asn Pro Pro Gly Ile Thr Tyr
 290 295

<210> 8713

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 8713

Ser Asp Asn Val Glu Arg Ser Pro Ile Lys Gly Ala Leu Pro Met Pro
 1 5 10 15
 His Val Asp Ile Lys Cys Phe Pro Arg Asp Leu Thr Asp Glu Gln Lys

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<210> 8714
<211> 339
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<210> 8715
 <211> 294
 <212> PRT
 <213> Enterobacter cloacae

<400> 8715

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Phe Ile Asn Arg Gly Tyr His Leu Leu Glu Gln Ile Met Ser Pro Phe
1      5      10      15
Leu Ser Ala Tyr Phe Ala Arg Thr Gly Trp Gln Gln Pro Val Gln Val
20      25      30
Asn Ile Asp Thr Leu Arg Gly Leu His Leu His Asn Cys Ala Ile
35      40      45
Pro Phe Glu Asn Ile Asp Val Leu Pro Arg Glu Ile His Leu Asp
50      55      60
Asp Gly Cys Leu Val Asp Lys Leu Val Thr Ala Arg Arg Gly Gly Tyr
65      70      75      80
Cys Phe Glu Gln Asn Gly Leu Phe Glu Arg Val Leu Arg Glu Val Gly
85      90      95
Phe Thr Val Arg Ser Val Leu Gly Arg Val Val Leu Ala Asn Pro Ser
100     105     110
Gln Met Pro Arg Thr His Arg Leu Leu Leu Val Glu Leu Asn Gly
115     120     125
Glu Arg Trp Ile Ala Asp Val Gly Phe Gly Gly Gln Thr Leu Thr Ala
130     135     140
Pro Ile Arg Leu Ile Ala Asn Glu Glu Gln Glu Thr Pro His Gly Arg
145     150     155     160
Tyr Arg Leu Leu Ser Glu Gly Asn Asp Trp Ile Leu Gln Phe Arg His
165     170     175
His Asp His Trp Gln Ser Met Tyr His Phe Asp Leu Ala Thr Gln Tyr
180     185     190
Phe Asn Asp Tyr Val Met Gly Asn Phe Trp Ser Ala His Trp Pro Gln
195     200     205
Ser His Phe Arg His His Leu Leu Met Cys Arg His Leu Pro Asp Gly
210     215     220
Gly Lys Leu Thr Leu Thr Asn Phe Asn Phe Thr His Trp Gln Asn Gly
225     230     235     240
His Val Glu Glu Gln Ile His Leu Pro Asp Ala Glu Ala Leu Tyr Gln
245     250     255
Leu Met Gln Ala Arg Phe Gly Leu Gly Val Asp Asp Pro Lys His Gly
260     265     270
Phe Thr Leu Ala Glu Leu Thr Ala Val Met Ala Gly Phe Asp Thr His
275     280     285
Pro Gln Ala Gly Glu
290

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<210> 8716
 <211> 704
 <212> PRT
 <213> Enterobacter cloacae

<400> 8716

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Gly Asn Ile Met Pro Arg Pro Ile Pro Leu Glu Arg Tyr Arg Asn Ile
1      5      10      15
Gly Ile Ser Ala His Ile Asp Ala Gly Lys Thr Thr Thr Thr Glu Arg
20      25      30
Ile Leu Phe Tyr Thr Gly Met Ser His Lys Leu Gly Glu Val His Asp
35      40      45
Gly Ala Ala Thr Thr Asp Trp Met Ala Gln Glu Gln Glu Arg Gly Ile
50      55      60
Thr Ile Thr Ser Ala Ala Val Ser Cys Phe Trp Pro Gly Met Asp Arg
65      70      75      80

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Gly	Phe	Glu	Pro	His	Arg	Ile	Asn	Ile	Ile	Asp	Thr	Pro	Gly	His	Val
				85					90					95	
Asp	Phe	Thr	Ile	Glu	Val	Glu	Arg	Ser	Met	Arg	Val	Leu	Asp	Gly	Ala
			100					105					110		
Val	Met	Val	Tyr	Asp	Ser	Val	Gly	Gly	Val	Gln	Pro	Gln	Ser	Glu	Thr
		115					120					125			
Val	Trp	Arg	Gln	Ala	Asn	Lys	Tyr	His	Val	Pro	Arg	Leu	Ala	Phe	Val
	130					135					140				
Asn	Lys	Met	Asp	Arg	Pro	Gly	Ala	Asp	Phe	Phe	Arg	Val	Val	Arg	Met
145					150					155					160
Met	Gln	Glu	Arg	Leu	Lys	Ala	Asn	Pro	Val	Pro	Ile	Val	Ile	Pro	Val
				165					170					175	
Gly	Ala	Glu	Glu	His	Phe	Thr	Gly	Val	Val	Asp	Leu	Ile	Lys	Met	Arg
			180					185					190		
Thr	Ile	Leu	Trp	Asp	Asp	Ala	Thr	Gln	Gly	Met	Ala	Phe	Ser	Tyr	Ala
		195					200					205			
Pro	Val	Pro	Asp	Asp	Leu	Leu	Ser	Thr	Ala	Gln	Thr	Trp	Arg	Glu	Lys
	210					215						220			
Met	Val	Ser	Ser	Ala	Ala	Glu	Ala	Ser	Asp	Glu	Leu	Met	Asp	Lys	Tyr
225					230					235					240
Leu	Glu	Thr	Gly	Glu	Leu	Asp	Glu	Ala	Glu	Ile	Ile	Lys	Gly	Leu	Arg
				245					250					255	
Ile	Arg	Thr	Ile	Ser	Gly	Glu	Ile	Gln	Pro	Met	Leu	Cys	Gly	Ser	Ala
			260					265					270		
Phe	Lys	Asn	Lys	Gly	Val	Gln	Arg	Met	Leu	Asp	Ala	Val	Ile	Glu	Leu
		275					280					285			
Met	Pro	Ser	Pro	Leu	Asp	Val	Pro	Ala	Ile	Asp	Gly	Val	Asp	Glu	Asp
	290					295					300				
Gly	Gln	His	Ala	Glu	Arg	His	Pro	Ser	Asp	Asp	Glu	Pro	Phe	Ser	Ala
305					310					315					320
Leu	Ala	Phe	Lys	Leu	Met	Ser	Asp	Pro	Tyr	Val	Gly	Gln	Leu	Thr	Phe
				325					330					335	
Ile	Arg	Val	Tyr	Ser	Gly	Ile	Leu	Arg	Lys	Gly	Asp	Ala	Val	Tyr	Asn
			340					345					350		
Pro	Val	Lys	Gly	Lys	Lys	Glu	Arg	Ile	Gly	Arg	Ile	Val	Leu	Met	His
		355					360						365		
Ala	Asn	Asp	Arg	His	Glu	Val	Asp	Glu	Leu	Arg	Ala	Gly	Asp	Ile	Ala
	370					375						380			
Ala	Cys	Val	Gly	Leu	Lys	Asp	Val	Thr	Thr	Gly	Asp	Thr	Leu	Thr	Asp
385					390					395					400
Pro	Asn	Ala	Val	Ile	Thr	Leu	Glu	Arg	Met	Glu	Phe	Pro	Asp	Pro	Val
				405					410					415	
Ile	Ser	Leu	Ala	Ile	Glu	Pro	Lys	Thr	Lys	Ala	Asp	Gln	Glu	Lys	Met
			420					425					430		
Gly	Ile	Ala	Leu	Gln	Arg	Leu	Ala	Ala	Glu	Asp	Pro	Ser	Phe	Arg	Leu
		435					440					445			
His	Thr	Asp	Glu	Glu	Ser	Gly	Gln	Thr	Ile	Ile	Ser	Gly	Met	Gly	Glu
450						455					460				
Leu	His	Leu	Glu	Ile	Ile	Val	Asp	Arg	Met	Lys	Arg	Glu	Phe	Gly	Val
465					470					475					480
Glu	Ala	Asn	Ile	Gly	Arg	Pro	Gln	Val	Thr	Tyr	Arg	Glu	Thr	Leu	Arg
			485						490					495	
Lys	Ala	Val	Lys	Asp	Ile	Glu	Gly	Lys	Phe	Val	Arg	Gln	Ser	Gly	Gly
			500					505					510		
Lys	Gly	Gln	Tyr	Gly	His	Val	Val	Leu	Ser	Leu	Glu	Pro	Leu	Ala	Ala
		515					520					525			
Gly	Ser	Gly	Phe	Val	Phe	Glu	Asp	Ala	Thr	Lys	Gly	Gly	Val	Val	Pro
	530					535					540				
Arg	Glu	Tyr	Ile	Pro	Ser	Val	Glu	Lys	Gly	Leu	Arg	Glu	Ala	Met	Asn
545					550					555					560
Thr	Gly	Val	Leu	Ala	Gly	Tyr	Pro	Val	Val	Asp	Val	Lys	Ala	Thr	Leu

				565					570					575			
Thr	Phe	Gly	Ser	Tyr	His	Asp	Val	Asp	Ser	Ser	Glu	Met	Ala	Phe	Arg		
			580					585					590				
Met	Ala	Ala	Ile	Leu	Gly	Phe	Lys	Glu	Gly	Ala	Arg	Arg	Ala	Asp	Pro		
		595					600					605					
Val	Ile	Leu	Glu	Pro	Val	Met	His	Val	Glu	Val	Glu	Thr	Pro	Glu	Glu		
	610					615					620						
Tyr	Ala	Gly	Asn	Ile	Met	Gly	Asp	Leu	Ser	Ser	Arg	Arg	Gly	Leu	Val		
625					630					635					640		
Gln	Gly	Met	Ala	Glu	Gln	Tyr	Gly	Ser	Gln	Ile	Ile	Arg	Ala	Asp	Val		
			645						650					655			
Pro	Leu	Ala	Glu	Met	Phe	Gly	Tyr	Ala	Thr	Thr	Leu	Arg	Ser	Met	Ser		
			660					665					670				
Gln	Gly	Arg	Ala	Thr	Tyr	Thr	Met	Glu	Phe	His	His	Phe	Ala	Glu	Ala		
		675					680					685					
Pro	Arg	Asn	Val	Ala	Glu	Glu	Ile	Ile	Ala	Lys	Arg	Val	Lys	Ser			
	690					695					700						

<210> 8717

<211> 358

<212> PRT

<213> Enterobacter cloacae

<400> 8717

Lys	Gly	Ile	Val	Met	Ser	Leu	Arg	His	Leu	Cys	Ser	Pro	Arg	Leu	Arg		
1				5					10					15			
Gly	Ser	Leu	Leu	Leu	Gly	Ser	Leu	Leu	Phe	Ala	Gly	Thr	Phe	Gln	Val		
			20					25					30				
His	Ala	Ala	Glu	Glu	Met	Leu	Arg	Lys	Ala	Val	Gly	Lys	Gly	Ala	Tyr		
		35					40					45					
Glu	Met	Ala	Val	Ser	Gln	Gln	Glu	Asn	Ala	Leu	Trp	Val	Ala	Thr	Ser		
	50					55					60						
Gln	Ser	Arg	Lys	Thr	Asp	Lys	Gly	Gly	Val	Val	Tyr	Arg	Leu	Asp	Pro		
65					70					75				80			
Val	Thr	Leu	Glu	Val	Thr	Gln	Ala	Ile	His	Asn	Asp	Leu	Lys	Pro	Phe		
				85					90					95			
Gly	Ala	Thr	Ile	Asp	Asn	Ala	Thr	Gln	Thr	Leu	Trp	Phe	Gly	Asn	Thr		
			100					105					110				
Val	Asn	Ser	Ala	Val	Thr	Ala	Ile	Asp	Ala	Lys	Thr	Ser	Glu	Val	Lys		
		115					120					125					
Gly	Arg	Leu	Val	Leu	Asp	Asp	Arg	Lys	Arg	Ser	Asp	Thr	Val	Lys	Pro		
	130					135					140						
Leu	Gln	Pro	Arg	Gln	Leu	Val	Ala	Asp	Asp	Thr	Thr	Asn	Thr	Val	Tyr		
145					150					155					160		
Ile	Thr	Gly	Ile	Gly	Lys	Glu	Ser	Val	Ile	Trp	Val	Val	Asp	Gly	Ala		
			165						170					175			
Thr	Leu	Lys	Leu	Lys	Asp	Thr	Ile	Thr	Asn	Thr	Gly	Thr	Phe	Ser	Thr		
			180					185					190				
Gly	Leu	Ala	Leu	Asp	Ala	Lys	Ala	Lys	Arg	Leu	Tyr	Thr	Thr	Asn	Ala		
		195					200					205					
Asp	Gly	Glu	Leu	Val	Thr	Ile	Asp	Thr	Ala	Thr	Asn	Lys	Ile	Leu	Ser		
	210					215					220						
Arg	Lys	Lys	Val	Gln	Asp	Asp	Gly	Lys	Glu	His	Phe	Tyr	Leu	Asn	Leu		
225					230					235					240		
Ser	Leu	Asp	Thr	Val	Gly	Gln	Arg	Ala	Phe	Val	Thr	Asp	Ser	Lys	Gln		
			245						250					255			
Pro	Glu	Val	Leu	Val	Val	Asn	Leu	Lys	Asp	Gly	Ser	Val	Met	Gln	Lys		
			260					265					270				
Ile	Ala	Ala	Pro	Glu	Ser	Leu	Ala	Val	Leu	Phe	Asn	Pro	Ala	Arg	Asn		
		275					280					285					
Glu	Ala	Tyr	Val	Thr	His	Arg	Glu	Ala	Gly	Lys	Val	Ser	Val	Ile	Asp		

290		295		300
Ala Lys Thr Tyr Lys	Val Thr Lys Thr Tyr	Asp Thr Pro Val Tyr Pro		
305	310	315		320
Asn Ser Leu Ala Leu	Ser Ala Asp Gly Lys Thr	Leu Tyr Val Thr Val		
	325	330		335
Lys Gln Lys Ser Thr	Arg Gln Gln Glu Ala Thr	Gln Pro Asp Asp Val		
	340	345	350	
Ile Arg Ile Ala Leu				
355				

<210> 8718

<211> 192

<212> PRT

<213> Enterobacter cloacae

<400> 8718

Phe Asp Pro Phe Ser Ser	Ala Phe Ala Gly Gly Thr Val Lys Ile Asn
1	5 10 15
Ile Ile Gly Thr Ser Gly Ser Gly Lys Ser Thr Phe Gly Arg Arg Ile	20 25 30
Ala Glu Ala Leu Ala Ile Pro Tyr Ile Glu Met Asp Arg Leu Tyr Trp	35 40 45
Arg Ala Asn Trp Gln Gly Thr Pro Asp Asp Glu Phe Leu Ala Thr Leu	50 55 60
Glu Lys Ala Leu Ala Ala Ser Pro Asp Trp Val Leu Asp Gly Asn Tyr	65 70 75 80
Asn Arg Thr Arg Asp Val Lys Trp Arg Asp Val Asp Leu Val Val Trp	85 90 95
Ile Asp Arg Gly Phe Ile Arg Thr Leu Trp Gln Ala Val Thr Arg Ala	100 105 110
Ser Arg Arg Ala Trp His Lys Gln Glu Leu Trp Pro Gly Thr Gly Asn	115 120 125
Arg Glu Ser Phe Arg Arg Ser Phe Leu Ser Lys Asp Ser Ile Ile Ile	130 135 140
Trp Thr Ile Lys Thr Trp Arg Ser Asn Arg Lys Arg Tyr Gln Ala Asp	145 150 155 160
Met Gln Asn Pro Gln Tyr Lys His Ile Arg Phe Leu Arg Ile Thr Arg	165 170 175
Arg Gln Asp Ala Glu Arg Leu Ile Ala Ser Leu Lys Ser Arg Arg	180 185 190

<210> 8719

<211> 379

<212> PRT

<213> Enterobacter cloacae

<400> 8719

Gln Gly Gly Tyr Arg Met Ser Phe Ser	Glu Gln Leu Ile Ala Trp Arg
1	5 10 15
Arg Glu Leu His Gln Asn Pro Glu Leu Ser Gly Gln Glu Val Glu Thr	20 25 30
Thr Ala Arg Leu Arg Glu Trp Leu Thr Ala Ala Gly Ile Ala Pro Leu	35 40 45
Pro Tyr Asp Leu Gln Thr Gly Leu Val Ala Glu Ile Gly Thr Gly Asn	50 55 60
Ala Leu Val Ala Leu Arg Ala Asp Ile Asp Ala Leu Pro Ile Asp Glu	65 70 75 80
Arg Ser Gly Val Pro Phe Ser Ser Arg Arg Ala Gly Val Met His Ala	85 90 95
Cys Gly His Asp Ile His Thr Ser Val Ile Leu Gly Ala Ala Leu Lys	100 105 110

Leu Lys Glu Arg Glu Ala Ser Leu Asn Gly Arg Val Arg Ile Leu Phe
 115 120 125
 Gln Pro Ala Glu Glu Asn Phe Gly Gly Ala Lys Ser Met Val Arg Ala
 130 135 140
 Gly Ala Leu Arg Asp Val Arg Ala Ile Phe Gly Met His Asn Glu Pro
 145 150 155 160
 Ser Leu Pro Val Gly Glu Phe Ala Thr Arg Gly Gly Pro Phe Tyr Ala
 165 170 175
 Asn Val Asp Arg Phe Val Ile His Val Thr Gly Lys Gly Ala His Ala
 180 185 190
 Ala Arg Pro His Glu Gly Asn Asp Ala Ile Val Leu Ala Ser Gln Leu
 195 200 205
 Val Thr Ala Leu Gln Ser Val Ala Ser Arg Asn Val Asn Thr Leu Asp
 210 215 220
 Ser Val Val Leu Ser Val Thr Arg Ile Ala Gly Gly Asn Thr Trp Asn
 225 230 235 240
 Val Leu Pro Glu Ser Val Glu Leu Glu Gly Thr Leu Arg Thr His Arg
 245 250 255
 Thr Glu Val Gln Gln Asn Val Lys Ala Arg Val Gly Glu Ile Ala Ala
 260 265 270
 Gly Phe Ala Ser Ala Phe Ser Ala Gln Ile Asn Ile Thr Trp Tyr Ala
 275 280 285
 Gly Pro Thr Ala Leu Val Asn Asp Glu His Trp Ala Val Phe Ala Thr
 290 295 300
 Ser Val Ala Arg Glu Ala Gly Tyr Glu Thr Arg His Ala Glu Leu His
 305 310 315 320
 Met Gly Gly Glu Asp Phe Ala Val Tyr Leu Gln Asn Ile Pro Gly Ala
 325 330 335
 Phe Val Ser Ile Gly Ser Asn Ser Pro Phe Gly Leu His His Pro Ala
 340 345 350
 Phe Asn Pro Asp Glu Ala Leu Ile Glu Pro Ala Ala Arg Tyr Phe Ala
 355 360 365
 Gln Leu Ala Glu Lys Ala Leu Gln His Phe
 370 375

<210> 8720

<211> 354

<212> PRT

<213> Enterobacter cloacae

<400> 8720

Pro Gly Gly Ala Arg Phe Thr Gly Ala Trp Pro Val Pro His Arg Leu
 1 5 10 15
 Ser Arg His His Ala Ala Arg Lys Ser Gly Leu Arg Arg Ala Gln Lys
 20 25 30
 Ser Val His Thr Thr Ile Lys Glu Lys Asn Ala Met Gln Lys Ser Ser
 35 40 45
 Leu Ile Leu Ala Leu Ala Leu Ala Phe Thr Pro Ala Val Trp Ala Glu
 50 55 60
 Asn Val Asn Ile Asn Gly Thr Gly Val Ser Ile Glu Ala Asn Lys Thr
 65 70 75 80
 Pro Ile Asn Thr Ala Lys Asn Ser Asp Ala Ile Ala Gln Leu Pro Lys
 85 90 95
 Asp Tyr Arg Phe Ala Val Pro Gly Lys Phe Thr Val Ala Val Ala Gly
 100 105 110
 Leu Asn Gln Pro Pro Leu Thr Val Phe Ser Asp Asp Asn Lys Thr Leu
 115 120 125
 Leu Gly Ser Glu Val Asp Ile Ala Arg Leu Val Ala Asp Ser Leu Gly
 130 135 140
 Leu Glu Leu Asn Val Val Pro Thr Ser Trp Glu Asp Trp Pro Leu Gly
 145 150 155 160

Val Ala Ser Gly Lys Tyr Asp Ala Ala Ile Ser Asn Ile Thr Val Thr
 165 170 175
 Lys Ala Arg Lys Glu Lys Phe Asp Phe Ala Thr Tyr Arg Lys Asp Ser
 180 185 190
 Leu Gly Phe Tyr Val Lys Ser Thr Ser Pro Ile Asn Ser Leu Val Lys
 195 200 205
 Ala Glu Asp Ile Ala Gly Leu Arg Ile Ile Val Gly Ser Gly Thr Asn
 210 215 220
 Gln Glu Ala Ile Leu Leu Ala Trp Asn Glu Glu Asn Leu Lys Lys Gly
 225 230 235 240
 Leu Lys Pro Phe Thr Pro Ile Tyr Thr Lys Asp Asp Ala Ala Gln Thr
 245 250 255
 Leu Ala Leu Gln Ser Gly Arg Ala Asp Ala Tyr Phe Gly Pro Asn Val
 260 265 270
 Ile Gly Ala Trp Lys Ala Ala Leu Asn Gly Lys Thr Lys Leu Val Gly
 275 280 285
 Ser Val Asp Gly Gly Trp Pro Lys Ala Ala His Ile Ala Val Thr Leu
 290 295 300
 Lys Lys Gly Ser Gly Leu Ala Glu Pro Val Gln Thr Ala Leu Asn Gly
 305 310 315 320
 Ala Ile Lys Asn Gly Asp Tyr Asp Lys Val Leu Asn Arg Trp Gly Glu
 325 330 335
 Gly Val Glu Arg Ile Pro Ser Ser Glu Val Asn Pro Ala Gly Leu Gly
 340 345 350
 Asp

<210> 8721
 <211> 173
 <212> PRT
 <213> Enterobacter cloacae

<400> 8721
 Gly Gly Ala Met Arg Glu Gln Phe Arg Asp Val Ser Pro Glu Asp Thr
 1 5 10 15
 Asp Leu Gln Pro Ile Ile Glu Gly Leu Phe Gly Glu Tyr Ala Ala Arg
 20 25 30
 Tyr Gly Asp Tyr Phe Ser Lys Asp Ala Glu Val Glu Leu Thr Glu Trp
 35 40 45
 Tyr Leu Ala Pro Gln Gly Leu Phe Ile Val Leu Glu Arg Asp Gly Glu
 50 55 60
 Ile Ile Ala Thr Gly Ala Tyr Lys Pro Phe Asp Glu His Thr Ala Glu
 65 70 75 80
 Ile Lys Arg Ile Trp Thr Asn Lys Thr Leu Arg Gln Gln Gly Leu Ala
 85 90 95
 Ala Arg Val Val Gln Glu Leu Glu Arg Ala Val Leu Ala Gly Tyr
 100 105 110
 Ser His Ile Tyr Leu Thr Thr Gly Phe Arg Gln Pro Glu Ala Val Arg
 115 120 125
 Leu Tyr Leu Ser Gln Gly Tyr Gln Pro Gln Phe Asp Leu Asn Arg Asp
 130 135 140
 Pro Glu Glu Tyr Ser Gln Pro Pro Phe Asp Gly Arg Leu Arg Phe Thr
 145 150 155 160
 Lys Thr Leu Ile Arg Glu Ala Leu Ser Lys Thr Ala
 165 170

<210> 8722
 <211> 312
 <212> PRT
 <213> Enterobacter cloacae

<400> 8722

Gly Ala Thr Met Ser Asn Val Glu Thr Ile Lys Val Val Pro Ala Arg
 1 5 10 15
 Tyr Pro Leu Arg Ala Ala Gly Ala Val Val Ala Leu Phe Val Leu Ala
 20 25 30
 Val Val Ile Gln Ser Val Ala Phe Asn Pro Arg Trp Glu Trp Ala Val
 35 40 45
 Phe Ala Arg Trp Phe Phe Asp Pro Val Ile Leu Glu Gly Val Gly Gln
 50 55 60
 Thr Leu Leu Leu Thr Leu Ile Ser Thr Val Leu Ser Val Val Ile Gly
 65 70 75 80
 Gly Met Leu Ala Leu Ala Arg Leu Ser Ser Ser Trp Leu Leu Ser Ser
 85 90 95
 Leu Ala Trp Gly Tyr Ile Trp Leu Phe Arg Ser Leu Pro Leu Ile Val
 100 105 110
 Val Leu Ile Ile Leu Tyr Asn Phe Ser Tyr Leu Tyr Asp Thr Leu Ser
 115 120 125
 Leu Gly Val Pro Phe Thr Gly Ile Thr Trp Gly Ser Phe Glu Thr Ile
 130 135 140
 Asn Val Leu Gly Gln Phe Ser Thr Ala Ile Val Gly Leu Thr Leu Val
 145 150 155 160
 Gln Ser Ala Tyr Thr Ala Glu Ile Ile Arg Gly Gly Phe Leu Gly Val
 165 170 175
 Asp His Gly Gln Tyr Glu Ala Ala Ala Leu Gly Leu Pro Ala Trp
 180 185 190
 Arg Arg Thr Val Arg Ile Ile Leu Pro Gln Ala Leu Arg Thr Ile Leu
 195 200 205
 Pro Ser Gly Phe Asn Glu Ile Ile Ser Leu Ala Lys Gly Thr Ala Met
 210 215 220
 Val Tyr Val Leu Ala Met Pro Glu Leu Phe Tyr Thr Ile Gln Met Ile
 225 230 235 240
 Tyr Asn Arg Thr Gln Asp Val Ile Pro Leu Leu Met Val Gly Ala Val
 245 250 255
 Trp Tyr Leu Val Ile Thr Thr Val Leu Ser Ala Ile Gln His Val Ile
 260 265 270
 Glu Arg Gly Leu Ala Arg Ser Glu Arg Arg Ser Ala Val Asn Gln Asn
 275 280 285
 Arg Ala Ala Ser Arg Ser Arg Ser Val Thr Thr Ser Pro Ala Gln Glu
 290 295 300
 Pro Val His Ala Ser Leu Ser
 305 310

<210> 8723

<211> 209

<212> PRT

<213> Enterobacter cloacae

<400> 8723

Gly Gly Asn Met Ile Lys Leu Tyr Gly Val Pro Gly Trp Gly Ser Ala
 1 5 10 15
 Ile Ser Glu Val Met Leu Thr Leu Ala Asp Ile Pro Tyr Gln Phe Val
 20 25 30
 Asn Val Asp Gly Phe Asp Gln Pro Gly Pro Gln Arg Glu Leu Leu Leu
 35 40 45
 Lys Leu Asn Pro Leu Cys Gln Val Pro Thr Leu Glu Leu Glu Asn Gly
 50 55 60
 Ala Ile Val Thr Glu Thr Ala Ala Ile Ala Leu Met Val Leu Asp Arg
 65 70 75 80
 Arg Pro Asp Leu Ala Pro Pro Val Gly Gln Ala Glu Arg Gln Gln Phe
 85 90 95
 Gln Arg Leu Leu Ile Trp Phe Val Ala Asn Val Tyr Pro Thr Phe Thr

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<210> 8724
<211> 99
<212> PRT
<213> Enterobacter cloacae
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<210> 8725
<211> 465
<212> PRT
<213> Enterobacter cloacae
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<400> 8725
Ser Met Thr Leu Gly Ala Ser Gly Lys Glu Leu Leu Trp Ile Ile Asp
1          5          10          15
Ile Tyr Ser Leu Val Met Ala Gly Met Val Leu Pro Met Gly Ala Met
20          25          30
Gly Asp Arg Ile Gly Phe Lys Arg Leu Leu Met Ile Gly Ser Val Leu
35          40          45
Phe Gly Leu Ser Ser Leu Ala Ala Phe Ala Pro Ser Ala Gly Trp
50          55          60
Leu Ile Ala Ala Arg Ala Ser Leu Ala Ile Gly Ala Ala Met Ile Ile
65          70          75          80
Pro Ala Thr Leu Ala Gly Ile Arg Thr Leu Phe Ile Asp Ala Arg His
85          90          95
Arg Asn Ile Ala Leu Gly Val Trp Ala Ala Val Gly Ser Gly Gly Ala
100          105          110
Ala Phe Gly Pro Leu Ile Gly Gly Met Leu Leu Glu His Phe Tyr Trp
115          120          125
Gly Ser Val Phe Leu Ile Asn Val Pro Ile Val Leu Met Val Val Ser
130          135          140

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Leu Ala Ala Arg Phe Val Pro Ala Gln Gln Gly Arg Pro Glu Gln Pro
 145 150 155 160
 Leu Asn Ile Ser His Ala Ile Met Leu Ile Val Ala Ile Leu Leu Leu
 165 170 175
 Val Tyr Ser Ala Lys Thr Ala Leu Lys Gly Val Leu Ser Pro Trp Met
 180 185 190
 Val Thr Ile Thr Leu Leu Thr Gly Ala Val Met Leu Phe Ile Phe Val
 195 200 205
 Arg Ile Gln Leu Arg Ala Arg Val Pro Met Ile Asp Met Arg Leu Phe
 210 215 220
 Cys His Arg Ile Ile Leu Ser Gly Val Val Met Ala Met Thr Ala Met
 225 230 235 240
 Ile Ala Leu Val Gly Phe Glu Leu Leu Met Ala Gln Glu Leu Gln Phe
 245 250 255
 Val His Gly Phe Thr Pro Phe Glu Ala Gly Ile Phe Met Leu Pro Val
 260 265 270
 Met Val Ala Ser Gly Phe Ser Gly Pro Ile Ala Gly Val Leu Val Gly
 275 280 285
 Arg Leu Gly Leu Arg Ile Val Ala Ala Gly Gly Met Gly Leu Ser Ala
 290 295 300
 Val Ser Phe Ile Gly Leu Ser Met Leu Asp Phe Ser Thr Gln Gln Trp
 305 310 315 320
 Gln Ala Trp Ser Leu Met Val Leu Leu Gly Phe Ser Ala Ala Ser Ala
 325 330 335
 Leu Leu Thr Ser Thr Ser Ala Ile Met Ala Ala Ala Pro Lys Glu Lys
 340 345 350
 Ala Ala Ala Ala Gly Ala Ile Glu Thr Met Ser Tyr Glu Leu Gly Ala
 355 360 365
 Gly Leu Gly Ile Ala Ile Phe Gly Leu Leu Leu Thr Arg Ser Phe Ser
 370 375 380
 Ala Ser Ile Val Leu Pro Gln Gly Leu Ser Ala Ser Leu Thr Asp Lys
 385 390 395 400
 Ala Ser Ser Ser Ile Gly Glu Ala Met Lys Val Ala Gln Glu Leu Thr
 405 410 415
 Pro Ser Leu Ala Glu Pro Val Met Thr Ala Ala Lys Thr Ala Phe Ile
 420 425 430
 Thr Ser His Ser Val Ala Leu Gly Ser Ala Gly Gly Met Leu Leu Ile
 435 440 445
 Leu Ala Val Gly Ile Trp Phe Ser Leu Ala Lys Val Gly Gly Gln Gln
 450 455 460

465

<210> 8726

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 8726

Gln Ile Leu Glu Leu Val Gly Gln Thr Tyr Ser His Asp Val Val Gly
 1 5 10 15
 Ser His Phe Gly Ile Phe Gly Glu Leu Ala Val Ile His Glu Val Asp
 20 25 30
 Phe Val Ile Asn Val Gly Gly His Val Phe Val Glu Val Val Ala Arg
 35 40 45
 Ala Asn Val Asn Val Phe Asn Gln Ile Leu Val Ala Ile Arg Thr Asp
 50 55 60
 Val Ser Thr Ser Arg Cys Gln
 65 70

<210> 8727

<211> 262
 <212> PRT
 <213> Enterobacter cloacae

<400> 8727

Gln	Arg	Gln	Ser	Ile	Ile	Lys	Ile	Ser	Lys	Leu	Val	Asn	Asn	Ala	Arg
1				5					10					15	
His	Val	Asn	Cys	Val	Glu	Gly	Asn	Thr	Thr	Leu	Tyr	Ala	Leu	Pro	Arg
		20					25						30		
Ala	Glu	Ile	Val	Glu	Arg	Trp	Arg	Glu	Gln	Thr	Thr	Asp	Asp	Phe	Arg
		35					40					45			
Phe	Cys	Phe	Lys	Phe	Pro	Ala	Thr	Ile	Ser	His	Asn	Ala	Ala	Leu	Arg
	50					55				60					
Asn	Cys	Asp	Asp	Leu	Thr	His	Glu	Phe	Phe	Thr	Arg	Met	Ser	Pro	Leu
65				70						75					80
Ala	Asn	Arg	Ile	Gly	Gln	Tyr	Trp	Leu	Gln	Leu	Pro	Ala	Ala	Phe	Gly
			85					90						95	
Pro	Arg	Asp	Leu	Pro	Ala	Leu	Trp	Gln	Phe	Leu	Glu	Ala	Leu	Pro	Leu
		100						105					110		
Asp	Phe	Thr	Tyr	Gly	Val	Glu	Val	Arg	His	Pro	Glu	Phe	Phe	Ala	Lys
		115					120					125			
Gly	Asp	Ala	Glu	Lys	Ala	Leu	Asn	Arg	Gly	Leu	His	Glu	Arg	Ser	Val
	130					135					140				
Asn	Arg	Val	Ile	Leu	Asp	Ser	Arg	Pro	Val	His	Ser	Ala	Ile	Pro	His
145				150						155					160
Ser	Glu	Ala	Val	Val	Asp	Ala	Gln	Arg	Lys	Lys	Pro	Lys	Val	Pro	Val
			165						170					175	
His	Ala	Ile	Val	Thr	Ala	Gln	Asn	Pro	Met	Val	Arg	Phe	Ile	Gly	Ser
		180					185						190		
Asp	Asn	Met	Gln	Gln	Asn	Glu	Glu	Met	Phe	Ala	Val	Trp	Leu	Gln	Thr
	195						200					205			
Leu	Ala	Lys	Trp	Glu	His	Thr	Thr	Thr	Pro	Tyr	Leu	Phe	Leu	His	Thr
	210					215					220				
Pro	Asp	Ile	Ala	Gln	Ala	Pro	Glu	Leu	Val	Asp	Ala	Leu	Trp	Gln	Ala
225				230						235					240
Leu	Gln	Gln	Ala	Val	Pro	Ser	Val	Gly	Pro	Ala	Pro	Ser	Ile	Pro	Gln
			245						250					255	
Gln	Ser	Ser	Leu	Phe											
			260												

<210> 8728
 <211> 143
 <212> PRT
 <213> Enterobacter cloacae

<400> 8728

Arg	Arg	Ala	Ile	Cys	Gln	Lys	Gln	Gly	Val	Ser	Met	Val	Ser	Ala	Leu
1				5					10					15	
Tyr	Ala	Val	Leu	Gly	Ala	Leu	Leu	Leu	Ile	Lys	Phe	Ser	Phe	Asp	Val
		20						25					30		
Val	Arg	Leu	Arg	Met	Gln	Tyr	Arg	Val	Ser	Tyr	Gly	Asp	Gly	Gly	Phe
		35					40					45			
Ser	Glu	Leu	Gln	Ser	Ala	Ile	Arg	Ile	His	Gly	Asn	Ala	Val	Glu	Tyr
	50					55				60					
Ile	Pro	Val	Ala	Leu	Ile	Leu	Leu	Leu	Leu	Met	Glu	Met	Asp	Gly	Ala
65				70						75					80
Glu	Thr	Trp	Met	Val	His	Val	Cys	Gly	Leu	Leu	Leu	Ile	Ala	Gly	Arg
			85					90						95	
Leu	Met	His	Tyr	Tyr	Gly	Phe	His	His	Arg	Leu	Ile	Arg	Trp	Arg	Arg
		100						105					110		
Ser	Gly	Met	Ser	Ala	Thr	Trp	Cys	Ser	Leu	Leu	Leu	Met	Val	Leu	Ala

	115					120					125		
Asn	Leu	Trp	Tyr	Met	Pro	Trp	Glu	Leu	Val	Phe	Ser	Phe	His
	130					135					140		

<210> 8729

<211> 337

<212> PRT

<213> Enterobacter cloacae

<400> 8729

Leu	Trp	Phe	Ser	Gly	Gly	Ala	Glu	Ser	Arg	Arg	Ser	Met	Ile	Glu
1			5					10				15		
Phe	Gly	Asn	Phe	Tyr	Gln	Leu	Ile	Ala	Lys	Asn	His	Leu	Ser	His
		20					25				30			Trp
Leu	Glu	Thr	Leu	Pro	Ala	Gln	Ile	Ala	Thr	Trp	Gln	Arg	Asp	Gln
	35					40				45				Gln
His	Gly	Leu	Leu	Lys	Gln	Trp	Ser	Asn	Ala	Val	Glu	Phe	Leu	Pro
	50				55				60					Glu
Leu	Thr	Pro	His	Arg	Leu	Asp	Leu	Leu	His	Ser	Val	Thr	Ala	Glu
65					70				75					Ser
Glu	Glu	Pro	Leu	Pro	Ala	Gly	Gln	Ile	Asn	Arg	Ile	Glu	Thr	Leu
			85					90				95		Met
Arg	Asn	Leu	Met	Pro	Trp	Arg	Lys	Gly	Pro	Phe	Ser	Leu	Tyr	Gly
		100					105					110		Val
Asn	Ile	Asn	Thr	Glu	Trp	Arg	Ser	Asp	Trp	Lys	Trp	Asp	Arg	Val
	115						120					125		Leu
Pro	His	Leu	Ser	Asp	Leu	Thr	Gly	Arg	Thr	Ile	Leu	Asp	Val	Gly
	130				135					140				Cys
Gly	Ser	Gly	Tyr	His	Met	Trp	Arg	Met	Ile	Gly	Ala	Gly	Ala	His
145					150				155					Leu
Val	Val	Gly	Ile	Asp	Pro	Met	Gln	Leu	Phe	Leu	Cys	Gln	Phe	Glu
			165					170						Ala
Val	Arg	Lys	Leu	Leu	Gly	Asn	Asp	Gln	Arg	Ala	His	Leu	Leu	Pro
		180						185				190		Leu
Gly	Ile	Glu	Gln	Leu	Pro	Ala	Leu	Lys	Ala	Phe	Asp	Thr	Val	Phe
	195						200					205		Ser
Met	Gly	Val	Leu	Tyr	His	Arg	Arg	Ser	Pro	Leu	Glu	His	Leu	Trp
	210					215					220			Gln
Leu	Lys	Asp	Gln	Leu	Val	Ser	Gly	Gly	Glu	Leu	Val	Leu	Glu	Thr
225					230				235					Leu
Val	Ile	Glu	Gly	Asp	Glu	His	Ala	Val	Leu	Val	Pro	Gly	Asp	Arg
			245					250					255	Tyr
Ala	Gln	Met	Arg	Asn	Val	Tyr	Phe	Ile	Pro	Ser	Ala	Leu	Ala	Leu
		260					265					270		Lys
Asn	Trp	Leu	Glu	Lys	Cys	Gly	Phe	Val	Asp	Val	Arg	Ile	Ala	Asp
	275						280					285		Val
Cys	Val	Thr	Ser	Ile	Glu	Glu	Gln	Arg	Arg	Thr	Asp	Trp	Met	Ile
	290					295					300			Thr
Glu	Ser	Leu	Glu	Gln	Phe	Leu	Asp	Pro	Asp	Asp	His	Ser	Lys	Thr
305					310				315					Ile
Glu	Gly	Tyr	Pro	Ala	Pro	Met	Arg	Ala	Val	Leu	Ile	Ala	Thr	Lys
			325						330					Pro

<210> 8730

<211> 581

<212> PRT

<213> Enterobacter cloacae

<400> 8730

Gly	Ile	Gln	Val	Asn	Ile	Gln	Ala	Leu	Leu	Ser	Glu	Lys	Val	Ser	Gln
1				5					10					15	
Ala	Leu	Ile	Ala	Ala	Gly	Ala	Pro	Ala	Asp	Cys	Glu	Pro	Gln	Val	Arg
			20					25					30		
Gln	Ser	Ala	Lys	Val	Gln	Phe	Gly	Asp	Tyr	Gln	Ala	Asn	Gly	Val	Met
		35					40					45			
Ala	Val	Ala	Lys	Lys	Leu	Gly	Met	Pro	Pro	Arg	Gln	Leu	Ala	Glu	Gln
	50					55					60				
Val	Leu	Thr	His	Leu	Asp	Leu	Thr	Gly	Ile	Ala	Ser	Lys	Thr	Glu	Ile
65					70				75						80
Ala	Gly	Pro	Gly	Phe	Ile	Asn	Ile	Phe	Leu	Glu	Pro	Ala	Phe	Leu	Ala
				85					90					95	
Ser	His	Val	Asp	Ala	Ala	Leu	Lys	Ser	Asp	Arg	Leu	Gly	Val	Ala	Gln
			100					105					110		
Pro	Glu	Ala	Gln	Thr	Val	Val	Val	Asp	Tyr	Ser	Ala	Pro	Asn	Val	Ala
		115					120					125			
Lys	Glu	Met	His	Val	Gly	His	Leu	Arg	Ser	Thr	Ile	Ile	Gly	Asp	Ala
	130					135					140				
Ala	Val	Arg	Thr	Leu	Glu	Phe	Leu	Gly	His	Lys	Val	Ile	Arg	Ala	Asn
145					150					155					160
His	Val	Gly	Asp	Trp	Gly	Thr	Gln	Phe	Gly	Met	Leu	Ile	Ala	Tyr	Leu
				165					170					175	
Glu	Lys	Gln	Gln	Gln	Glu	Asn	Ala	Gly	Glu	Met	Ala	Leu	Ala	Asp	Leu
			180					185					190		
Glu	Gly	Phe	Tyr	Arg	Glu	Ala	Lys	Lys	His	Tyr	Asp	Glu	Asp	Glu	Ala
		195					200					205			
Phe	Ala	Glu	Arg	Ala	Arg	Ser	Tyr	Val	Val	Lys	Leu	Gln	Gly	Gly	Asp
	210					215					220				
Pro	Tyr	Phe	Leu	Glu	Met	Trp	Arg	Lys	Leu	Val	Asp	Ile	Thr	Met	Ser
225					230					235					240
Gln	Asn	Gln	Leu	Thr	Tyr	Asn	Arg	Leu	Asn	Val	Thr	Leu	Thr	Arg	Asp
				245					250					255	
Asp	Val	Met	Gly	Glu	Ser	Leu	Tyr	Asn	Pro	Met	Leu	Pro	Gly	Ile	Val
			260					265					270		
Ala	Asp	Leu	Lys	Ala	Lys	Asn	Leu	Ala	Val	Glu	Ser	Glu	Gly	Ala	Thr
		275					280					285			
Val	Val	Phe	Leu	Asp	Glu	Tyr	Lys	Asn	Lys	Glu	Gly	Glu	Pro	Met	Gly
	290					295					300				
Val	Ile	Val	Gln	Lys	Lys	Asp	Gly	Gly	Tyr	Leu	Tyr	Thr	Thr	Thr	Asp
305					310					315					320
Ile	Ala	Cys	Ala	Lys	Tyr	Arg	Tyr	Glu	Thr	Leu	His	Ala	Asp	Arg	Val
				325					330					335	
Leu	Tyr	Tyr	Ile	Asp	Ser	Arg	Gln	His	Gln	His	Leu	Met	Gln	Ala	Trp
			340					345					350		
Thr	Ile	Val	Arg	Lys	Ala	Gly	Tyr	Val	Pro	Asp	Ser	Val	Pro	Leu	Glu
		355					360					365			
His	His	Met	Phe	Gly	Met	Met	Leu	Gly	Lys	Asp	Gly	Lys	Pro	Phe	Lys
	370					375					380				
Thr	Arg	Ala	Gly	Gly	Thr	Val	Lys	Leu	Ser	Asp	Leu	Leu	Asp	Glu	Ala
385					390					395					400
Leu	Glu	Arg	Ala	Arg	Arg	Leu	Val	Ala	Glu	Lys	Asn	Pro	Asp	Met	Pro
				405					410					415	
Ala	Asp	Glu	Leu	Glu	Lys	Leu	Ala	Asn	Ala	Val	Gly	Ile	Gly	Ala	Val
			420					425					430		
Lys	Tyr	Ala	Asp	Leu	Ser	Lys	Asn	Arg	Thr	Thr	Asp	Tyr	Ile	Phe	Asp
		435					440					445			
Trp	Asp	Asn	Met	Leu	Ala	Phe	Glu	Gly	Asn	Thr	Ala	Pro	Tyr	Met	Gln
	450					455					460				
Tyr	Ala	Tyr	Thr	Arg	Val	Leu	Ser	Val	Phe	Arg	Lys	Ala	Asn	Ile	Asp
465					470					475					480
Glu	Ser	Val	Leu	Ala	Asn	Ala	Thr	Val	Ser	Ile	Thr	Glu	Asp	Arg	Glu

				485					490					495			
Ala	Gln	Leu	Ala	Ala	Arg	Leu	Leu	Gln	Phe	Glu	Glu	Thr	Leu	Ser	Val		
			500					505					510				
Val	Ala	Arg	Asp	Gly	Thr	Pro	His	Val	Met	Cys	Ala	Tyr	Leu	Tyr	Asp		
		515					520					525					
Leu	Ala	Gly	Leu	Phe	Ser	Gly	Phe	Tyr	Glu	His	Cys	Pro	Ile	Leu	Ser		
	530					535					540						
Ala	Glu	Ser	Glu	Ala	Val	Arg	His	Ser	Arg	Leu	Lys	Leu	Ala	Gln	Leu		
545					550					555					560		
Thr	Ala	Lys	Thr	Leu	Lys	Leu	Gly	Leu	Asp	Thr	Leu	Gly	Ile	Glu	Thr		
				565					570					575			
Val	Glu	Arg	Met														
			580														

<210> 8731

<211> 449

<212> PRT

<213> Enterobacter cloacae

<400> 8731

Ser	His	Ile	Ala	Leu	Gly	Arg	Leu	Glu	Glu	Ser	Met	Asp	Arg	Val	Thr		
1				5				10						15			
Tyr	Pro	Thr	Gly	Val	Glu	Asn	His	Gly	Gly	Thr	Leu	Arg	Ile	Trp	Phe		
			20					25					30				
Asn	Phe	Lys	Gly	Lys	Arg	Val	Arg	Glu	Ser	Leu	Gly	Val	Pro	Asp	Thr		
		35				40						45					
Ala	Lys	Asn	Arg	Lys	Ile	Ala	Gly	Glu	Leu	Arg	Thr	Ser	Val	Cys	Phe		
	50					55					60						
Ala	Ile	Arg	Thr	Gly	Thr	Phe	Glu	Tyr	Ala	Ala	Gln	Phe	Pro	Asp	Ser		
65					70				75						80		
Pro	Asn	Leu	Lys	Thr	Phe	Gly	Val	Gly	Lys	Lys	Glu	Ile	Thr	Val	Ser		
				85				90						95			
Glu	Leu	Ala	Glu	Lys	Trp	Leu	Asp	Leu	Lys	Arg	Met	Glu	Ile	Cys	Ala		
		100						105						110			
Asn	Ala	Leu	Asn	Arg	Tyr	Glu	Ser	Val	Thr	Arg	Asn	Met	Val	Pro	Arg		
	115							120				125					
Ile	Gly	Gly	Asn	Arg	Leu	Val	Ser	Ala	Val	Thr	Lys	Glu	Glu	Leu	Leu		
	130					135					140						
Tyr	Ile	Arg	Lys	Asp	Leu	Leu	Thr	Gly	His	Gln	Met	Pro	Met	Lys	Gly		
145					150					155					160		
Lys	Val	Pro	Ala	Lys	Gly	Ile	Ser	Val	Val	Thr	Val	Asn	Tyr	Tyr	Met		
				165					170						175		
Thr	Thr	Ile	Ala	Gly	Met	Phe	Gln	Phe	Ala	Ala	Asp	His	Gly	Tyr	Leu		
			180					185					190				
Glu	Ala	Asn	Pro	Phe	Asp	Gly	Ile	Lys	Pro	Leu	Lys	Lys	Ala	Arg	Ala		
	195							200				205					
Glu	Pro	Asp	Pro	Leu	Thr	Arg	Asp	Glu	Phe	Ile	Arg	Leu	Ile	Asp	Ala		
	210					215						220					
Cys	Arg	His	Gln	Gln	Thr	Lys	Asn	Leu	Trp	Ser	Leu	Ala	Val	Tyr	Thr		
225					230					235					240		
Gly	Val	Arg	His	Gly	Glu	Leu	Thr	Ser	Leu	Ala	Trp	Glu	Asp	Ile	Asp		
				245					250					255			
Leu	Glu	Ala	Gly	Thr	Ile	Thr	Ile	Arg	Arg	Asn	Tyr	Thr	Lys	Leu	Gly		
		260						265					270				
Glu	Phe	Thr	Leu	Pro	Lys	Thr	Glu	Ala	Ser	Thr	Asn	Arg	Val	Ile	His		
	275						280					285					
Leu	Ile	Gln	Pro	Ala	Ile	Ser	Val	Leu	Arg	Asn	Gln	Ala	Glu	Met	Thr		
	290					295					300						
Arg	Phe	Gly	Lys	Lys	His	Gln	Ile	Asp	Val	Gln	Leu	Arg	Glu	Tyr	Gly		
305					310					315					320		
Arg	Thr	Glu	Ser	His	Glu	Cys	Thr	Phe	Val	Phe	Asn	Pro	Gln	Leu	Val		

<400>	8733														
Ile	Lys	Ile	Leu	Tyr	Ala	Ser	Thr	Gln	Glu	Thr	Leu	Leu	Ala	His	Arg
1				5					10					15	
Gly	Phe	Phe	Val	Ala	Ser	Ala	Asn	Lys	Leu	Thr	Leu	Phe	Ile	Val	Ile
			20					25					30		
Phe	Met	Leu	Ala	Gly	Ile	Leu	Ser	Gly	Ala	Ala	Ile	His	Glu	Tyr	Ala
		35					40					45			
Ser	Ser	Asp	Ala	Ile	Gln	Ala	Trp	Ser	Glu	Asn	Ile	Thr	Leu	Leu	Thr
	50					55					60				
Asp	Ile	Phe	Leu	Arg	Leu	Ile	Lys	Met	Val	Ile	Ala	Pro	Leu	Val	Phe
65				70					75						80
Ser	Thr	Leu	Thr	Val	Gly	Ile	Met	Lys	Leu	Gly	Glu	Thr	Ser	Thr	Ile
				85					90					95	
Gly	Arg	Val	Gly	Gly	Lys	Ala	Met	Val	Trp	Phe	Ile	Ser	Ser	Ser	Val
			100					105					110		
Leu	Ser	Ile	Leu	Val	Gly	Leu	Phe	Ile	Val	Thr	Leu	Glu	Gln	Pro	Gly
		115					120					125			
Ser	Gly	Leu	Asn	Leu	Ser	Ile	Pro	Thr	Glu	Thr	Val	Asp	Thr	Gly	Leu
	130					135					140				
Ala	Val	Ser	Gly	Met	Ser	Leu	Lys	Ala	Phe	Leu	Ser	His	Thr	Ile	Pro
145				150					155						160
Thr	Ser	Ile	Ala	Gly	Ala	Met	Ala	Asn	Asn	Glu	Ile	Leu	Gln	Ile	Val
				165					170					175	
Val	Phe	Ser	Met	Phe	Phe	Gly	Ile	Gly	Gly	Ala	Ser	Leu	Gly	Gln	Lys
			180					185					190		
Phe	Asn	Ala	Pro	Leu	Val	Ala	Ala	Leu	Asp	Val	Val	Ser	His	Ile	Met
		195					200					205			
Leu	Lys	Val	Thr	Gly	Tyr	Val	Met	Tyr	Val	Ala	Pro	Leu	Ala	Ile	Phe
	210				215						220				
Ala	Ala	Ile	Ser	Ser	Val	Ile	Ala	Thr	Gln	Gly	Leu	Gly	Ile	Leu	Leu
225					230					235					240
Asn	Tyr	Ala	Ser	Phe	Ile	Gly	Gly	Tyr	Tyr	Val	Ala	Ile	Leu	Leu	Thr
				245					250					255	
Cys	Leu	Val	Leu	Leu	Ala	Val	Gly	Tyr	Met	Val	Leu	Lys	Lys	Glu	Ile
			260					265					270		
Phe	Arg	Leu	Val	Ala	Met	Leu	Lys	Asp	Pro	Val	Leu	Val	Ala	Phe	Thr
		275					280					285			
Thr	Ser	Ser	Ser	Glu	Ala	Ala	Tyr	Pro	Lys	Thr	Leu	Glu	Gln	Leu	Ala
	290					295					300				
Arg	Phe	Gly	Cys	Ser	Arg	Asn	Ile	Ala	Ser	Phe	Val	Leu	Pro	Ile	Gly
305					310					315					320
Tyr	Ser	Phe	Asn	Leu	Val	Gly	Ser	Met	Val	Tyr	Cys	Ser	Phe	Ala	Ser
			325						330					335	
Met	Phe	Ile	Ala	Gln	Ala	Tyr	Asn	Ile	His	Leu	Ser	Phe	Thr	Glu	Val
			340					345					350		
Thr															

435

<210> 8734
 <211> 147
 <212> PRT
 <213> Enterobacter cloacae

<400> 8734

Lys	Glu	Cys	Val	Met	Ser	Tyr	Ser	His	Leu	Leu	Val	Ser	Val	Ala	Val
1				5					10					15	
Ser	Pro	Glu	Ser	His	Gln	Leu	Val	Ala	Arg	Ala	Val	Ser	Ile	Ala	Arg
			20					25					30		
Pro	Asn	Asn	Ala	Arg	Ile	Ser	Leu	Ile	Thr	Leu	Ala	Ala	Glu	Pro	Glu
		35					40					45			
Met	Tyr	Asn	Gln	Leu	Ala	Ala	Pro	Met	Leu	Glu	Asp	Ile	Arg	Glu	Val
	50					55					60				
Leu	Gln	Glu	Glu	Thr	Gln	Gln	Phe	Leu	Arg	Glu	Leu	Val	Glu	Arg	Ala
65				70						75					80
Asn	Tyr	Pro	Val	His	Gln	Thr	Val	Ile	Ala	Thr	Gly	Glu	Leu	Ser	Glu
			85						90					95	
His	Ile	Leu	Asp	Ile	Cys	Arg	Lys	Gln	Asn	Ile	Asp	Leu	Val	Ile	Cys
			100					105					110		
Gly	Asn	His	Asn	Gln	Ser	Phe	Phe	Ser	Arg	Ala	Ala	Cys	Ser	Ala	Lys
		115					120					125			
Ser	Ile	Val	Ser	Ser	Ser	Gln	Val	Asp	Val	Leu	Leu	Val	Pro	Leu	Gly
	130					135						140			
Gly	Asn														
145															

<210> 8735
 <211> 312
 <212> PRT
 <213> Enterobacter cloacae

<400> 8735

Gly	Arg	Met	Lys	Asn	Gln	Ser	His	Pro	Ile	Val	Ile	Val	Lys	Lys	Arg
1				5					10					15	
Lys	His	Lys	Ala	His	Gly	His	Gly	Ser	His	Gly	Ser	Trp	Lys	Ile	Ala
			20					25					30		
Tyr	Ala	Asp	Phe	Met	Thr	Ala	Met	Met	Ala	Phe	Phe	Leu	Val	Met	Trp
		35					40					45			
Leu	Ile	Ser	Ile	Ser	Ser	Pro	Lys	Glu	Leu	Ile	Gln	Ile	Ala	Glu	Tyr
	50					55					60				
Phe	Arg	Thr	Pro	Leu	Ala	Thr	Ala	Val	Thr	Gly	Gly	Pro	Arg	Ile	Ser
65				70						75					80
Asn	Ser	Asp	Ser	Pro	Ile	Pro	Gly	Gly	Gly	Asp	Asp	Tyr	Thr	Gln	Gln
			85					90						95	
Gln	Gly	Glu	Val	Lys	Lys	Gln	Pro	Asn	Ile	Asp	Glu	Leu	Lys	Lys	Arg
			100					105					110		
Met	Glu	Gln	Ala	Arg	Leu	Lys	Lys	Leu	Arg	Gly	Asp	Leu	Asp	Gln	Leu
		115					120					125			
Ile	Glu	Ala	Asp	Pro	Lys	Leu	Arg	Ala	Leu	Arg	Pro	His	Leu	Lys	Ile
	130					135					140				
Asp	Leu	Val	Gln	Glu	Gly	Leu	Arg	Ile	Gln	Ile	Ile	Asp	Ser	Gln	Asn
145					150					155					160
Arg	Pro	Met	Phe	Lys	Thr	Gly	Ser	Ala	Asp	Val	Glu	Pro	Tyr	Met	Arg
			165						170					175	
Asp	Ile	Leu	Arg	Ala	Ile	Ala	Pro	Val	Leu	Asn	Gly	Ile	Pro	Asn	Arg
			180					185					190		
Ile	Ser	Leu	Ser	Gly	His	Thr	Asp	Asp	Phe	Pro	Tyr	Ala	Thr	Gly	Glu
		195					200						205		

Lys Gly Tyr Ser Asn Trp Glu Leu Ser Ala Asp Arg Ala Asn Ala Ser
 210 215 220
 Arg Arg Glu Leu Val Ala Gly Gly Leu Asp Asp Gly Lys Val Leu Arg
 225 230 235 240
 Val Val Gly Met Ala Ala Thr Met Arg Leu Thr Asp Arg Gly Pro Asp
 245 250 255
 Asp Ala Ile Asn Arg Arg Ile Ser Leu Leu Val Leu Asn Gln Gln Ala
 260 265 270
 Glu Gln Ala Ile Leu His Glu Asn Ala Glu Ser Gln Asn Glu Ser Leu
 275 280 285
 Asp Asp Leu Lys Gln Pro Gly Ala Val Pro Ser Ala Ala Val Pro Thr
 290 295 300
 Ser Pro Pro Ala Asn Pro Arg
 305 310

<210> 8736

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 8736

Pro Cys His Gly Arg Lys Gly Arg Thr Ser Met Lys Pro Phe Phe Arg
 1 5 10 15
 Arg Ser Gly Leu Val Gly Leu Leu Gly Ala Thr Ala Leu Ala Ala Gly
 20 25 30
 Gln Ala Gln Ala Ala Ala Thr Ile Leu Leu Trp Pro Ile Asp Pro Trp
 35 40 45
 Leu Ser Ala Glu Ala Arg Ala Thr Glu Leu Trp Ile Gln Asn Gln Gly
 50 55 60
 Asn Ser Ala Thr Thr Met Gln Ile Arg Ile Val Arg Trp Lys Gln Glu
 65 70 75 80
 Gly Gly Tyr Glu Arg Tyr Thr Ala Gln Gln Asp Val Val Ala Ser Pro
 85 90 95
 Pro Ile Val Thr Ile Ala Lys Gly Ser Lys Gln Leu Ile Arg Leu Ile
 100 105 110
 Lys Gln Gly Thr Ile Pro Ser Gly Val Glu Gln Ala Tyr Arg Ile Ile
 115 120 125
 Val Asp Glu Ile Pro Gln Pro Asp Ala Lys Ala Glu Pro Ser Met Gly
 130 135 140
 Leu Lys Leu Gln Met Arg Tyr Ser Ile Pro Leu Phe Val Tyr Gly Gln
 145 150 155 160
 Gly Ile Pro Thr Leu Asn Glu Gly Ala His His Ala Leu Ala Asn Thr
 165 170 175
 Gln Gln Leu Ser Trp Arg Val Val Gln Glu Gly Gly Lys Pro Ala Leu
 180 185 190
 Gln Val Arg Asn Gln Gly Asp Val His Val Arg Leu Ser Gln Val Ala
 195 200 205
 Val Glu Gln Gly Gly Gln Lys Arg Thr Val Ala Glu Gly Leu Leu Gly
 210 215 220
 Tyr Val Leu Pro Gly Ser Thr Arg Ser Trp Pro Leu Pro Ala Gly Ile
 225 230 235 240
 Tyr Gln Pro Asn Arg Met Ser Ala Gln Ile Asn Ala Arg Asp Thr Gln
 245 250 255
 Trp Gln Ser Thr Pro Val Asn
 260

<210> 8737

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 8737

Pro Gly Lys Pro Ala Asp Ala Gly Glu Asn Gln Cys Arg Thr Gly Asn
 1 5 10 15
 Thr Tyr Leu Thr Gln Glu Tyr Tyr Phe Met Ala Asp Lys Glu Leu Lys
 20 25 30
 Phe Leu Val Val Asp Asp Phe Ser Thr Met Arg Arg Ile Val Arg Asn
 35 40 45
 Leu Leu Lys Glu Leu Gly Phe Asn Asn Val Glu Glu Ala Glu Asp Gly
 50 55 60
 Val Asp Ala Leu Asn Lys Leu Gln Ala Gly Gly Phe Gly Phe Val Ile
 65 70 75 80
 Ser Asp Trp Asn Met Pro Asn Met Asp Gly Leu Glu Leu Lys Thr
 85 90 95
 Ile Arg Ala Asp Ala Gly Met Ala Ser Leu Pro Val Leu Met Val Thr
 100 105 110
 Ala Glu Ala Lys Lys Glu Asn Ile Ile Ala Ala Ala Gln Ala Gly Ala
 115 120 125
 Ser Gly Tyr Val Val Lys Pro Phe Thr Ala Ala Thr Leu Glu Glu Lys
 130 135 140
 Leu Gly Lys Ile Phe Glu Lys Leu Gly Met
 145 150 155

<210> 8738

<211> 477

<212> PRT

<213> Enterobacter cloacae

<400> 8738

Lys Ala Ile Gly His Leu Leu Val Val Ser Asn Arg Ile Ala Pro Pro
 1 5 10 15
 Asp Asp Lys Lys Ala Ser Ala Gly Gly Leu Ala Val Gly Val Leu Gly
 20 25 30
 Ala Leu Lys Ala Ala Gly Gly Leu Trp Phe Gly Trp Ser Gly Glu Ile
 35 40 45
 Ser Asn Glu Glu Lys Pro Leu Lys Lys Val Ser Arg Gly Asn Ile Thr
 50 55 60
 Trp Ala Ser Phe Ala Leu Ser Glu Lys Asp Tyr Asp Glu Tyr Tyr Ser
 65 70 75 80
 Glu Phe Ser Asn Ala Val Leu Trp Pro Ala Phe His Tyr Arg Leu Asp
 85 90 95
 Leu Val Lys Phe Gln Arg Glu Ser Tyr Glu Gly Tyr Met Arg Val Asn
 100 105 110
 Ala Leu Leu Ala Asp Lys Leu Leu Pro Leu Ile Glu Glu Asp Asp Ile
 115 120 125
 Leu Trp Ile His Asp Tyr His Leu Leu Pro Phe Ala Arg Glu Leu Arg
 130 135 140
 Lys Arg Gly Val Asn Asn Arg Ile Gly Phe Phe Leu His Ile Pro Phe
 145 150 155 160
 Pro Thr Pro Glu Ile Phe Thr Ala Leu Pro Gln His Glu Glu Ile Leu
 165 170 175
 Glu Ala Leu Ser Asp Tyr Asp Leu Leu Gly Phe Gln Thr Glu Asn Asp
 180 185 190
 Arg Leu Ala Phe Leu Asp Ser Val Ser Gly Lys Thr Arg Leu Val Thr
 195 200 205
 His Gly Gly Lys Ser His Thr Ala Trp Gly Arg Asn Phe His Thr Glu
 210 215 220
 Val Tyr Pro Ile Gly Ile Glu Pro Asp Glu Ile Ala Glu Gln Ala Ser
 225 230 235 240
 Gly Pro Leu Pro Pro Lys Leu Ala Gln Leu Lys Asp Glu Leu Lys His
 245 250 255
 Val Lys Asn Ile Phe Ser Val Glu Arg Leu Asp Tyr Ser Lys Gly Leu


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<210> 8739
<211> 202
<212> PRT
<213> Enterobacter cloacae
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Arg	Ser	Pro	Glu	Glu	Lys	Gly	Leu	Thr	Met	Ser	Glu	Lys	Ser	Ile	Val
1				5					10					15	
Gln	Glu	Ala	Arg	Asp	Ile	Gln	Leu	Ala	Met	Glu	Leu	Ile	Thr	Leu	Gly
			20					25					30		
Ala	Arg	Leu	Gln	Met	Leu	Glu	Ser	Glu	Thr	Gln	Leu	Ser	Arg	Gly	Arg
		35					40					45			
Leu	Ile	Lys	Leu	Tyr	Lys	Glu	Leu	Arg	Gly	Ser	Pro	Pro	Pro	Lys	Gly
	50					55					60				
Met	Leu	Pro	Phe	Ser	Thr	Asp	Trp	Phe	Met	Thr	Trp	Glu	Gln	Asn	Ile
65					70					75					80
His	Ala	Ser	Met	Phe	Cys	Asn	Ala	Trp	Gln	Tyr	Leu	Leu	Lys	Thr	Gly
				85					90					95	
Leu	Cys	Ser	Gly	Val	Asp	Ala	Val	Ile	Lys	Ala	Tyr	Lys	Leu	Tyr	Leu
			100					105					110		
Glu	Gln	Cys	Pro	Gln	His	Glu	Glu	Gly	Pro	Leu	Leu	Ala	Leu	Thr	Arg
		115					120					125			
Ala	Trp	Thr	Leu	Val	Arg	Phe	Val	Glu	Ser	Gly	Met	Leu	Glu	Leu	Ser
		130				135					140				
Arg	Cys	Asn	Cys	Cys	Asp	Gly	Asn	Phe	Ile	Thr	His	Ala	His	Gln	Pro
145					150					155					160
Ala	Gly	Ser	Phe	Ala	Cys	Ser	Leu	Cys	Gln	Pro	Pro	Ser	Arg	Ala	Val
				165					170					175	
Lys	Arg	Arg	Lys	Leu	Ser	Arg	Asp	Ala	Ala	Asp	Ile	Ile	Pro	Gln	Leu
			180					185					190		
Leu	Asp	Glu	Gln	Ile	Glu	His	Ala	Val							
		195					200								

<210> 8740
 <211> 301
 <212> PRT
 <213> Enterobacter cloacae

<400> 8740

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Arg Lys Asp Asp Val Val Leu Ile Leu Leu Gly Tyr Leu Val Val Leu
1      5      10
Gly Thr Val Phe Gly Gly Tyr Met Met Thr Gly Gly His Leu Gly Ala
20      25      30
Leu Tyr Gln Pro Ala Glu Leu Val Ile Ile Gly Gly Ala Gly Val Gly
35      40      45
Ala Phe Ile Val Gly Asn Asn Gly Lys Ser Ile Lys Gly Thr Leu Lys
50      55      60
Ala Ile Pro Leu Leu Phe Arg Arg Ser Lys Tyr Thr Lys Ser Met Tyr
65      70      75      80
Met Asp Leu Leu Ala Leu Leu Tyr Arg Leu Met Ala Lys Ser Arg Gln
85      90      95
Gln Gly Met Phe Ser Leu Glu Arg Asp Ile Glu Asn Pro Lys Glu Ser
100     105     110
Glu Ile Phe Ala Ser Tyr Pro Arg Ile Leu Ala Asp Ala Met Met Leu
115     120     125
Asp Phe Ile Val Asp Tyr Leu Arg Leu Ile Ile Ser Gly Asn Met Asn
130     135     140
Thr Phe Glu Ile Glu Ala Leu Met Asp Glu Glu Ile Glu Thr His Glu
145     150     155     160
Ser Glu Ser Glu Val Pro Ala Asn Ser Leu Ala Leu Val Gly Asp Ser
165     170     175
Leu Pro Ala Phe Gly Ile Val Ala Ala Val Met Gly Val Val His Ala
180     185     190
Leu Ala Ser Ala Asp Arg Pro Ala Ala Glu Leu Gly Ala Leu Ile Ala
195     200     205
His Ala Met Val Gly Thr Phe Leu Gly Ile Leu Leu Ala Tyr Gly Phe
210     215     220
Ile Ser Pro Leu Ala Ser Val Leu Arg Gln Lys Ser Ala Glu Thr Thr
225     230     235     240
Lys Met Met Gln Cys Val Lys Ile Thr Leu Leu Ser Asn Leu Asn Gly
245     250     255
Tyr Ala Pro Pro Ile Ala Val Glu Phe Gly Arg Lys Thr Leu Tyr Ser
260     265     270
Ser Glu Arg Pro Ser Phe Ile Glu Leu Glu Glu His Val Arg Ala Val
275     280     285
Lys Asn Pro Asn Gln Gln Thr Thr Thr Glu Asp Ala
290     295     300

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<210> 8741
 <211> 692
 <212> PRT
 <213> Enterobacter cloacae

<400> 8741

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Asn Ser Leu Gly Pro Ser Leu Arg Leu Pro Phe Gln His Arg His Gln
1      5      10      15
Pro Ile Arg Gly Asp Ser Val Ser Met Asp Ile Thr Asp Phe Tyr Gln
20      25      30
Thr Phe Phe Asp Glu Ala Asp Glu Leu Leu Ala Asp Met Glu Gln His
35      40      45
Leu Leu Asp Leu Val Pro Glu Ala Pro Asp Ser Glu Gln Leu Asn Ala
50      55      60
Ile Phe Arg Ala Ala His Ser Ile Lys Gly Gly Ala Gly Thr Phe Gly
65      70      75      80

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Phe	Thr	Ile	Leu	Gln	Glu	Thr	Thr	His	Leu	Met	Glu	Asn	Leu	Leu	Asp
			85						90					95	
Glu	Ala	Arg	Arg	Gly	Glu	Met	Gln	Leu	Asn	Thr	Asp	Ile	Ile	Asn	Leu
			100					105					110		
Phe	Leu	Glu	Thr	Lys	Asp	Ile	Met	Gln	Glu	Gln	Leu	Asp	Ala	Tyr	Lys
		115					120					125			
Ser	Ser	Ala	Glu	Pro	Asp	Ala	Ala	Ser	Phe	Glu	Tyr	Ile	Cys	Asn	Ala
	130					135					140				
Leu	Arg	Gln	Leu	Ala	Leu	Glu	Ala	Lys	Gly	Glu	Ala	Ser	Ala	Pro	Ala
145					150					155				160	
Val	Pro	Ala	Ala	Lys	Leu	Ser	Val	Val	Asp	Ala	Val	Ala	Glu	Pro	Ala
				165					170					175	
Thr	Ala	Pro	Asp	Ala	Pro	Ala	Gly	Lys	Leu	Arg	Val	Val	Leu	Ser	Arg
			180					185					190		
Leu	Lys	Glu	Asn	Glu	Val	Asn	Leu	Leu	Glu	Glu	Glu	Leu	Gly	Asn	Leu
		195					200					205			
Ala	Thr	Leu	Ser	Asn	Val	Val	Lys	Gly	Lys	Asp	Ser	Leu	Ala	Ala	Thr
	210					215					220				
Leu	Asp	Gly	Gly	Ile	Gly	Gln	Asp	Asp	Ile	Val	Ala	Val	Leu	Cys	Phe
225					230					235					240
Val	Ile	Glu	Ala	Asp	Gln	Ile	Ala	Phe	Glu	Thr	Glu	Ala	Gly	Ala	Val
				245					250					255	
Glu	Ala	Pro	Ala	Pro	Ala	Glu	Asn	Thr	Pro	Ala	Val	Val	Ala	Ala	Ala
			260					265					270		
Pro	Ala	Leu	Lys	Ala	Val	Pro	Lys	Glu	Thr	Ala	Ala	Pro	Ala	Arg	Gly
		275					280					285			
Glu	Lys	Pro	Ala	Ala	Arg	Ser	Ser	Glu	Ser	Thr	Ser	Ile	Arg	Val	Ala
	290					295					300				
Val	Glu	Lys	Val	Asp	Gln	Leu	Ile	Asn	Leu	Val	Gly	Glu	Leu	Val	Ile
305					310					315					320
Thr	Gln	Ser	Met	Leu	Ala	Gln	Arg	Ser	Asn	Glu	Leu	Asp	Pro	Val	Thr
				325					330					335	
His	Gly	Asp	Leu	Ile	Thr	Ser	Met	Gly	Gln	Leu	Gln	Arg	Asn	Ala	Arg
			340					345					350		
Asp	Leu	Gln	Glu	Ser	Val	Met	Ser	Ile	Arg	Met	Met	Pro	Met	Glu	Tyr
	355						360					365			
Val	Phe	Ser	Arg	Phe	Pro	Arg	Leu	Val	Arg	Asp	Leu	Ala	Gly	Lys	Leu
	370					375					380				
Asn	Lys	Gln	Ile	Glu	Leu	Thr	Leu	Met	Gly	Ser	Ser	Thr	Glu	Leu	Asp
385					390					395					400
Lys	Ser	Leu	Ile	Glu	Arg	Ile	Ile	Asp	Pro	Leu	Thr	His	Leu	Val	Arg
			405					410					415		
Asn	Ser	Leu	Asp	His	Gly	Ile	Glu	Leu	Pro	Glu	Asn	Arg	Val	Ala	Ala
			420					425					430		
Gly	Lys	Ser	Pro	Val	Gly	Asn	Leu	Ile	Leu	Ser	Ala	Glu	His	Gln	Gly
	435						440					445			
Gly	Asn	Ile	Cys	Ile	Glu	Val	Thr	Asp	Asp	Gly	Ala	Gly	Leu	Asn	Arg
	450					455					460				
Glu	Arg	Ile	Leu	Ala	Lys	Ala	Ile	Ser	Gln	Gly	Met	Ala	Val	Asn	Glu
465					470					475					480
Asn	Met	Thr	Asp	Glu	Glu	Val	Gly	Met	Leu	Ile	Phe	Ala	Pro	Gly	Phe
				485				490						495	
Ser	Thr	Ala	Glu	Gln	Val	Thr	Asp	Val	Ser	Gly	Arg	Gly	Val	Gly	Met
			500					505					510		
Asp	Val	Val	Lys	Arg	Asn	Ile	Gln	Glu	Met	Gly	Gly	His	Val	Glu	Ile
		515					520					525			
Gln	Ser	Lys	Gln	Gly	Ala	Gly	Thr	Thr	Ile	Arg	Ile	Leu	Leu	Pro	Leu
						535					540				
Thr	Leu	Ala	Ile	Leu	Asp	Gly	Met	Ser	Val	Lys	Val	Ala	Asp	Glu	Val
545					550					555					560
Phe	Ile	Leu	Pro	Leu	Asn	Ala	Val	Met	Glu	Ser	Leu	Gln	Pro	Arg	Glu

				565					570				575		
Glu	Asp	Leu	His	Pro	Leu	Ala	Gly	Gly	Glu	Arg	Val	Leu	Glu	Val	Arg
			580					585					590		
Gly	Glu	Tyr	Leu	Pro	Leu	Val	Glu	Leu	Trp	Lys	Val	Phe	Glu	Val	Asp
		595					600					605			
Gly	Ala	Lys	Thr	Glu	Ala	Thr	Gln	Gly	Ile	Val	Val	Ile	Leu	Gln	Ser
	610					615					620				
Ala	Gly	Arg	Arg	Tyr	Ala	Leu	Leu	Val	Asp	Gln	Leu	Ile	Gly	Gln	His
	625				630					635					640
Gln	Val	Val	Val	Lys	Asn	Leu	Glu	Ser	Asn	Tyr	Arg	Lys	Val	Pro	Gly
				645					650					655	
Ile	Ser	Ala	Ala	Thr	Ile	Leu	Gly	Asp	Gly	Ser	Val	Ala	Leu	Ile	Val
		660						665					670		
Asp	Val	Ser	Ala	Leu	Gln	Gly	Leu	Asn	Arg	Glu	Gln	Arg	Val	Ala	Asn
		675					680					685			
Thr	Ala	Ala													
		690													

<210> 8742

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 8742

Met	Lys	Arg	Lys	Leu	Leu	Phe	Ile	Cys	Ala	Gly	Thr	Val	Leu	Thr	Ala
1				5					10					15	
Ala	Thr	Val	Gly	Gln	Ala	Leu	Ala	Val	Thr	Ser	Ser	Gly	Thr	Ile	Gly
			20					25					30		
Ala	Thr	Leu	Thr	Leu	Thr	Asn	Gly	Cys	Leu	Ile	Asn	Gly	Ser	Pro	Thr
		35					40					45			
Gln	Asn	Gly	Ile	Asn	Phe	Gly	Thr	Leu	Asp	Phe	Gly	Thr	His	Pro	Ala
	50					55					60				
Thr	Phe	Ser	Thr	Leu	Thr	Thr	Gln	Leu	Thr	Gly	Ala	Ser	Gly	Gly	Asn
	65				70					75					80
Thr	Phe	Thr	Ile	Gln	Cys	Thr	Thr	Ala	Ser	Tyr	Thr	Val	Ala	Ile	Thr
				85				90						95	
Gly	Asn	Thr	Asn	Ala	Thr	Ala	Pro	Gly	Thr	Val	Val	Gly	Thr	Pro	Gly
		100						105					110		
Thr	Pro	Ala	Arg	Tyr	Leu	Val	Asn	Thr	Ala	Asn	Ala	Ala	Gln	Gly	Val
		115					120					125			
Ala	Tyr	Ser	Leu	Tyr	Ser	Asp	Ser	Gly	Tyr	Asn	Asn	Val	Ile	Ala	Asn
		130				135					140				
Asn	Ala	Ala	Leu	Pro	Val	Ala	Ser	Thr	Ala	Gly	Gly	Val	Asn	Ser	Tyr
					150					155					160
Thr	Leu	Tyr	Gly	Arg	Ile	Thr	Gly	Gly	Gly	Asn	Ser	Val	Thr	Val	Val
				165				170						175	
Pro	Gly	Thr	Tyr	Thr	Asp	Thr	Ile	Asn	Val	Ser	Val	Thr	Tyr		
			180					185					190		

<210> 8743

<211> 545

<212> PRT

<213> Enterobacter cloacae

<400> 8743

Thr	Ala	Ala	Ala	Cys	Arg	Leu	Met	Gly	Ala	Trp	Met	Leu	Asn	Arg	Ile
1				5					10					15	
Arg	Ile	Ser	Thr	Thr	Leu	Phe	Leu	Ile	Leu	Ile	Leu	Cys	Gly	Val	Leu
			20					25					30		
Gln	Val	Gly	Ser	Asn	Gly	Leu	Ser	Phe	Trp	Ala	Phe	Arg	Asp	Gly	Tyr
		35					40						45		

Gln	Asn	Leu	Gln	Glu	Val	Glu	Thr	Ser	Asn	Gln	Gln	Arg	Ser	Ala	Leu
	50					55					60				
Ala	Gln	Thr	Arg	Ala	Val	Leu	Leu	Gln	Ala	Ser	Thr	Ala	Leu	Asn	Lys
65					70					75					80
Ala	Gly	Thr	Leu	Thr	Ala	Leu	Ser	Tyr	Pro	Pro	Glu	Asp	Ile	Lys	Ala
				85					90					95	
Leu	Met	Val	Val	Ala	Arg	Ser	Ser	Leu	Lys	Gln	Ala	Asp	Ala	Gln	Phé
			100					105					110		
Lys	Ala	Phe	Thr	Ala	Gln	Glu	Ala	Val	Ser	Glu	Lys	Glu	Lys	Ala	Leu
	115						120					125			
Lys	Val	Ala	Met	Lys	Lys	Thr	Phe	Asp	Val	Trp	Tyr	Gly	Asp	Leu	Asp
	130					135					140				
His	Gln	Ala	Thr	Trp	Leu	Glu	Asn	Asn	Gln	Leu	Ser	Asp	Phe	Leu	Thr
145					150					155					160
Ala	Pro	Val	Gln	Ala	Ser	Gln	Ala	Ala	Phe	Asp	Asp	Ser	Phe	Asn	Ala
			165						170					175	
Trp	Gln	Gln	Asp	Ile	Asn	Gln	Phe	Val	Ala	Arg	Ala	Gly	Ala	Asp	Ser
			180					185					190		
Arg	Thr	Ser	Tyr	Arg	Met	Ser	Gly	Val	Ile	Phe	Leu	Thr	Met	Val	Ile
	195						200					205			
Leu	Ala	Ala	Leu	Leu	Thr	Gly	Gly	Ser	Leu	Trp	Trp	Ser	Arg	Lys	Met
	210					215					220				
Ile	Val	Gln	Pro	Leu	Ala	Ile	Val	Ser	Ser	His	Phe	Asp	Ser	Ile	Ala
225					230					235					240
Lys	Gly	Asp	Leu	Ala	Arg	Pro	Val	Ala	Val	Tyr	Gly	Arg	Asn	Glu	Ile
			245					250						255	
Ser	Ala	Ile	Phe	Ala	Ser	Leu	Lys	Ala	Met	Gln	Ser	Ser	Leu	Arg	Glu
			260					265					270		
Thr	Val	Ser	Asn	Val	Arg	Gln	Gly	Ser	Tyr	Ala	Met	His	Thr	Gly	Ile
	275						280					285			
Ser	Glu	Ile	Ala	Ala	Gly	Asn	Asn	Asp	Leu	Ser	Ser	Arg	Thr	Glu	Gln
	290					295					300				
Gln	Ala	Ala	Ser	Leu	Ala	Gln	Thr	Ala	Ala	Ser	Met	Glu	Gln	Leu	Thr
305					310					315					320
Ala	Thr	Val	Ser	Gln	Asn	Ala	Asp	Asn	Ala	Arg	Gln	Ala	Ser	Asp	Leu
			325						330					335	
Ser	Lys	Gln	Ala	Ala	Met	Thr	Ala	Lys	Arg	Gly	Gly	Asp	Gln	Ala	Ser
			340					345					350		
His	Val	Ala	Ser	Thr	Met	Gln	Glu	Ile	Ala	Ala	Ser	Ser	Gln	Lys	Ile
	355						360					365			
Gly	Asp	Ile	Ile	Ser	Val	Ile	Asp	Gly	Ile	Ala	Phe	Gln	Thr	Asn	Ile
	370					375					380				
Leu	Ala	Leu	Asn	Ala	Ala	Val	Glu	Ala	Ala	Arg	Ala	Gly	Glu	Gln	Gly
385				390						395					400
Arg	Gly	Phe	Ala	Val	Val	Ala	Gly	Glu	Val	Arg	Asn	Leu	Ala	Ser	Arg
			405					410						415	
Ser	Ala	Asn	Ala	Ala	Lys	Glu	Ile	Lys	Gly	Leu	Ile	Glu	Glu	Ser	Val
			420					425					430		
Ser	Arg	Val	Gln	Gln	Gly	Ser	Ala	Leu	Val	Asp	Thr	Ala	Ala	Gln	Thr
	435					440						445			
Met	His	Glu	Ile	Val	Thr	Ser	Val	Thr	Arg	Val	Asn	Asp	Ile	Met	Gly
	450					455					460				
Glu	Ile	Ala	Ser	Ala	Ser	Asp	Glu	Gln	Arg	Arg	Gly	Ile	Glu	Gln	Val
465					470					475					480
Ala	Gln	Ala	Val	Thr	Gln	Met	Asp	Gln	Val	Thr	Gln	Gln	Asn	Ala	Ser
			485						490					495	
Leu	Val	Glu	Glu	Ala	Ala	Ala	Ala	Thr	Asp	Gln	Leu	Ala	Asn	Gln	Ala
			500					505					510		
Asp	His	Leu	Thr	Gly	Leu	Val	Ala	Val	Phe	Asn	Val	Lys	Glu	His	Val
	515						520					525			
Glu	Ala	Val	Thr	Glu	Val	Gly	Arg	Ser	Gln	Ala	Val	Pro	Val	Val	Ser

530

535

540

545

<210> 8744

<211> 353

<212> PRT

<213> Enterobacter cloacae

<400> 8744

Gly	Lys	Ser	Met	Ser	Lys	Ile	Arg	Val	Leu	Ser	Val	Asp	Asp	Ser	Ala
1				5					10					15	
Leu	Met	Arg	Gln	Ile	Met	Thr	Glu	Ile	Asn	Ser	His	Ser	Asp	Met	
			20					25				30			
Glu	Met	Val	Ala	Thr	Ala	Pro	Asp	Pro	Leu	Val	Ala	Arg	Asp	Leu	Ile
			35				40				45				
Lys	Lys	Tyr	Asn	Pro	Asp	Val	Leu	Thr	Leu	Asp	Val	Glu	Met	Pro	Arg
	50				55					60					
Met	Asp	Gly	Ile	Asp	Phe	Leu	Glu	Lys	Leu	Met	Arg	Leu	Arg	Pro	Met
65					70				75					80	
Pro	Val	Val	Met	Val	Ser	Ser	Leu	Thr	Gly	Lys	Gly	Ser	Glu	Ile	Thr
				85					90					95	
Leu	Arg	Ala	Leu	Glu	Leu	Gly	Ala	Val	Asp	Phe	Val	Thr	Lys	Pro	Gln
			100					105					110		
Leu	Gly	Ile	Arg	Glu	Gly	Met	Leu	Ala	Tyr	Ser	Glu	Met	Ile	Ala	Glu
			115				120					125			
Lys	Ile	Arg	Thr	Ala	Ser	Arg	Ala	Lys	Leu	Ala	Ala	His	Lys	Pro	Thr
	130					135					140				
Ala	Ala	Pro	Ala	Thr	Leu	Lys	Ala	Gly	Pro	Leu	Ser	Ser	Glu	Lys	
145					150					155				160	
Leu	Leu	Val	Ile	Gly	Ala	Ser	Thr	Gly	Gly	Thr	Glu	Ala	Ile	Arg	His
			165					170						175	
Val	Leu	Gln	Pro	Leu	Pro	Leu	Ser	Ser	Pro	Gly	Ile	Leu	Ile	Thr	Gln
			180					185					190		
His	Met	Pro	Pro	Gly	Phe	Thr	Arg	Ser	Phe	Ala	Glu	Arg	Leu	Asn	Lys
		195					200					205			
Leu	Cys	Gln	Ile	Ser	Val	Lys	Glu	Ala	Glu	Asp	Gly	Glu	Arg	Val	Leu
	210					215					220				
Pro	Gly	His	Ala	Tyr	Ile	Ala	Pro	Gly	Asp	Lys	His	Met	Glu	Leu	Ala
				230						235				240	
Arg	Ser	Gly	Ala	Asn	Tyr	Gln	Ile	Lys	Ile	His	Asp	Gly	Pro	Pro	Val
				245					250					255	
Asn	Arg	His	Arg	Pro	Ser	Val	Asp	Val	Leu	Phe	His	Ser	Val	Ala	Lys
			260					265					270		
His	Ala	Gly	Arg	Asn	Ala	Val	Gly	Val	Ile	Leu	Thr	Gly	Met	Gly	Asn
		275					280					285			
Asp	Gly	Ala	Ala	Gly	Met	Leu	Ala	Met	His	Gln	Ala	Gly	Ala	Trp	Thr
	290					295					300				
Ile	Ala	Gln	Asn	Glu	Ala	Ser	Cys	Val	Val	Phe	Gly	Met	Pro	Arg	Glu
				310						315				320	
Ala	Ile	Asn	Met	Ser	Gly	Val	Ser	Glu	Val	Val	Asp	Leu	Ser	Gln	Val
				325					330					335	
Ser	Gln	Gln	Met	Leu	Ala	Lys	Ile	Ser	Ala	Gly	Gln	Ala	Ile	Arg	Ile
			340					345					350		

<210> 8745

<211> 240

<212> PRT

<213> Enterobacter cloacae

<400> 8745

Ser His Ser Pro Arg Arg Leu Trp Lys Arg Ser Ser Gly Arg Ser Ser
 1 5 10 15
 Arg Asn Ser Ala Cys Glu Val Met Asp Met Leu Gln Pro Ala Met Lys
 20 25 30
 Pro Val Glu Glu His Ser Pro Ser Asp Ile Ile Ala Arg Ile Gly Ser
 35 40 45
 Leu Thr Arg Met Leu Arg Asp Ser Leu Arg Glu Leu Gly Leu Asp Gln
 50 55 60
 Ala Ile Ala Glu Ala Ala Glu Ala Ile Pro Asp Ala Arg Asp Arg Leu
 65 70 75 80
 Asp Tyr Val Val Gln Met Thr Ala Gln Ala Ala Glu Arg Ala Leu Asn
 85 90 95
 Ser Val Glu Ala Ser Gln Pro His Gln Asp Ala Met Glu Lys Gly Ala
 100 105 110
 Lys Ala Leu Ser Lys Arg Trp Asp Glu Trp Phe Glu Asn Pro Ile Glu
 115 120 125
 Leu Ala Asp Ala Arg Glu Leu Val Thr Asp Thr Arg Gln Tyr Leu Gly
 130 135 140
 Asp Val Pro Gly His Thr Ser Phe Thr Asn Ala Gln Leu Leu Asp Ile
 145 150 155 160
 Met Met Ala Gln Asp Phe Gln Asp Leu Thr Gly Gln Val Ile Lys Arg
 165 170 175
 Met Met Asp Val Ile Gln Glu Ile Glu Arg Gln Leu Leu Met Val Leu
 180 185 190
 Leu Glu Asn Ile Pro Glu Pro Ala Ala Arg Pro Lys Arg Glu Asn Glu
 195 200 205
 Ser Leu Leu Asn Gly Pro Gln Leu Asp Thr Ser Lys Ala Gly Val Val
 210 215 220
 Ala Ser Gln Asp Gln Val Asp Asp Leu Leu Asp Ser Leu Gly Phe
 225 230 235 240

<210> 8746

<211> 391

<212> PRT

<213> Enterobacter cloacae

<400> 8746

Ile Asn Gly Leu Arg Ala Gly Thr Val Ala Glu Glu Asn Asp Asp Lys
 1 5 10 15
 Thr Glu Ala Pro Thr Pro His Arg Leu Glu Lys Ala Arg Glu Asp Gly
 20 25 30
 Gln Ile Pro Arg Ser Arg Glu Leu Thr Ser Leu Leu Ile Leu Val Val
 35 40 45
 Gly Val Cys Ile Ile Trp Trp Gly Gly Glu Met Leu Ala Arg Arg Leu
 50 55 60
 Ala Gly Met Leu Ser Ala Gly Leu Arg Phe Asp His Ser Met Val Asn
 65 70 75 80
 Asp Pro Asn Leu Ile Leu Ile Gln Ile Ile Asn Leu Val Lys Ser Ala
 85 90 95
 Met Ile Ala Leu Leu Pro Leu Ile Ala Gly Val Val Ile Val Ala Leu
 100 105 110
 Val Ser Pro Val Met Leu Gly Gly Leu Val Phe Ser Gly Lys Ser Leu
 115 120 125
 Gln Pro Lys Phe Ser Lys Leu Asn Pro Leu Pro Gly Ile Ala Lys Met
 130 135 140
 Phe Ser Ala Gln Thr Gly Ala Glu Leu Leu Lys Ala Ile Leu Lys Ser
 145 150 155 160
 Leu Leu Met Gly Ser Thr Ala Gly Phe Phe Leu Trp His His Trp Pro
 165 170 175

Glu Met Met Arg Leu Ile Ser Glu Ser Pro Met Thr Ala Met Lys Asn
 180 185 190
 Ala Leu Asn Leu Val Gly Leu Cys Ser Leu Leu Val Val Leu Ser Ile
 195 200 205
 Ile Pro Met Val Ala Phe Asp Val Ile Phe Gln Ile Tyr Ser His Ile
 210 215 220
 Lys Lys Leu Arg Met Ser Arg Gln Asp Ile Arg Asp Glu Tyr Lys Gln
 225 230 235 240
 Met Glu Gly Asp Pro His Val Lys Gly Arg Ile Arg Gln Met Gln Arg
 245 250 255
 Ala Ala Ala Arg Arg Arg Met Met Glu Asp Val Pro Lys Ala Asp Val
 260 265 270
 Ile Val Thr Asn Pro Thr His Tyr Ser Val Ala Leu Gln Tyr Asp Glu
 275 280 285
 Asn Lys Met Ser Ala Pro Lys Val Val Ala Lys Gly Ala Gly Leu Ile
 290 295 300
 Ala Leu Arg Ile Arg Glu Ile Ala Thr Glu Asn Arg Val Pro Ile Leu
 305 310 315 320
 Glu Ala Pro Pro Leu Ala Arg Ala Leu Tyr Arg His Ala Glu Ile Gly
 325 330 335
 Gln Gln Ile Pro Gly Gln Leu Tyr Ala Ala Val Ala Glu Val Leu Ala
 340 345 350
 Trp Val Trp Gln Leu Lys Arg Trp Arg Leu Ala Gly Gly Gln Arg Pro
 355 360 365
 Val Lys Pro Glu Asn Leu Pro Val Pro Glu Ala Leu Asp Phe Leu Asn
 370 375 380
 Glu Lys Asp Thr Asp Gly
 385 390

<210> 8747

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 8747

Pro Gln Tyr Ser His Asp Gly Asp His Arg Arg Glu Ile Met Arg Lys
 1 5 10 15
 Trp Leu Trp Ile Leu Leu Phe Pro Leu Ala Ala Gln Ala Ala Gly Glu
 20 25 30
 Gly Ala Trp Gln Ala Ser Ser Ile Gly Leu Thr Leu Asn His Arg Gly
 35 40 45
 Glu Ser Ile Ser Ser Arg Pro Leu Ser Ala Ser Glu Pro Val Ser Gly
 50 55 60
 Gln Met Thr Leu Val Ala Trp Asn Tyr Thr Leu Thr Gly Pro Thr Pro
 65 70 75 80
 Ala Gly Leu Arg Val Arg Leu Cys Ser Leu Thr Arg Cys Ala Glu Ile
 85 90 95
 Glu Gly Gln Ser Gly Thr Thr Gln Ala Phe Asn Gly Val Ser Ala Gln
 100 105 110
 Glu Pro Leu Arg Phe Ile Trp Glu Val Pro Gly Gly Gly Arg Leu Ile
 115 120 125
 Pro Ala Leu Lys Val Gln Arg Asn Glu Val Leu Val Asn Tyr Arg
 130 135 140

<210> 8748

<211> 533

<212> PRT

<213> Enterobacter cloacae

<400> 8748

Leu Gly Leu Thr Ala Met Lys Thr Arg Lys Ile Gly Leu Ala Asn Tyr

1	5				10				15						
Leu	Ala	Tyr	Gly	Ser	Gly	Asp	Phe	Leu	Gly	Ala	Gly	Thr	Thr	Ala	Leu
			20					25					30		
Thr	Ala	Ala	Trp	Leu	Leu	Tyr	Phe	Tyr	Thr	Thr	Phe	Cys	Gly	Leu	Thr
		35					40				45				
Pro	Ile	Glu	Ala	Thr	Phe	Ile	Phe	Ala	Ala	Ala	Arg	Val	Leu	Asp	Ala
	50				55					60					
Val	Val	Ser	Pro	Leu	Met	Gly	Phe	Leu	Thr	Asp	Asn	Phe	Gly	Thr	Thr
65					70					75					80
Trp	Leu	Gly	Lys	Arg	Phe	Gly	Arg	Arg	Lys	Phe	Phe	Ile	Leu	Leu	Gly
				85					90					95	
Ile	Pro	Cys	Val	Phe	Ser	Tyr	Ser	Leu	Met	Trp	Val	Gly	Asp	Met	Ser
			100					105					110		
Phe	Trp	Tyr	Tyr	Leu	Leu	Thr	Tyr	Leu	Ile	Phe	Asp	Ile	Val	Tyr	Thr
		115					120				125				
Met	Ile	Leu	Val	Pro	Tyr	Glu	Thr	Leu	Val	Pro	Glu	Met	Thr	Asp	Asp
	130					135				140					
Phe	Lys	Gln	Lys	Thr	Lys	Phe	Ser	Gly	Ala	Arg	Ile	Ser	Met	Ala	Gln
145					150					155					160
Met	Ser	Ala	Ile	Leu	Ala	Ser	Phe	Leu	Pro	Gly	Ile	Leu	Leu	Thr	His
			165					170						175	
Phe	Gly	Lys	Asp	Asn	Ala	Ile	Ser	Phe	Phe	Tyr	Ala	Ser	Leu	Val	Phe
			180					185					190		
Ser	Val	Leu	Cys	Ala	Leu	Met	Leu	Thr	Phe	Val	Trp	Phe	Phe	Thr	Trp
		195					200				205				
Glu	Arg	Pro	Arg	Glu	Glu	Trp	Ser	Glu	Ala	Ala	Leu	Arg	Ala	Glu	Glu
	210					215					220				
Glu	Lys	Lys	Lys	Leu	Thr	Leu	Gly	Gln	Ser	Leu	Asn	Arg	Leu	Phe	Val
225					230					235					240
Glu	Leu	Ser	Ser	Thr	Leu	Arg	Ile	Lys	Ile	Phe	Arg	Gln	His	Leu	Gly
			245					250						255	
Met	Tyr	Leu	Gly	Gly	Tyr	Ile	Ala	Gln	Asp	Val	Phe	Asn	Ala	Val	Phe
			260				265						270		
Thr	Tyr	Tyr	Val	Val	Phe	Val	Leu	Met	Gln	Glu	Ala	Ser	Met	Ala	Ser
		275					280					285			
Asn	Leu	Leu	Gly	Thr	Met	Ala	Ile	Phe	Gln	Phe	Leu	Ala	Val	Ile	Gly
	290					295				300					
Met	Ile	Pro	Leu	Cys	Ile	Arg	Phe	Gly	Pro	Ala	Pro	Ser	Tyr	Arg	Met
305				310						315					320
Val	Val	Val	Leu	Phe	Gly	Leu	Ala	Ser	Leu	Ser	Tyr	Ala	Val	Leu	Tyr
			325					330						335	
Tyr	Ala	Gly	Leu	Ser	Asp	Val	Tyr	Ala	Leu	Leu	Leu	Leu	Ile	Ser	Ala
			340					345					350		
Val	Ala	Gly	Leu	Gly	Arg	Gly	Gly	Ile	Asn	Tyr	Val	Pro	Trp	Asn	Thr
		355					360					365			

Tyr Glu Ser Leu Trp Gly Asn Asn Asn Ile Gly Tyr Leu Asn Arg Asn
 500 505 510
 Lys Pro Ala Ala Pro Ser Leu Lys Asp Arg Ala Val Leu Asn Ser Thr
 515 520 525
 Tyr Asn Arg Gly
 530

<210> 8749

<211> 188

<212> PRT

<213> Enterobacter cloacae

<400> 8749

Pro Met Ala Asn Trp His Thr Ile Asp Glu Leu His Asp Ile Ser Ala
 1 5 10 15
 Asp Leu Pro Arg Phe Thr Gln Ala Phe Thr Glu Leu Ala Thr Arg Leu
 20 25 30
 Gly Leu Asp Ile Ala Pro Leu Glu Ala Asp His Ile Ser Leu Arg Cys
 35 40 45
 His Gln Asn Ala Thr Ala Glu Arg Trp Arg Arg Gly Phe Glu Gln Cys
 50 55 60
 Gly Glu Leu Leu Ser Glu Asn Ile Ile Asn Gly Arg Pro Ile Cys Leu
 65 70 75 80
 Phe Lys Leu His Ala Pro Val Thr Val Ala His Trp Gln Phe Thr Val
 85 90 95
 Val Glu Leu Pro Trp Pro Gly Glu Lys Arg Tyr Pro His Glu Gly Trp
 100 105 110
 Glu His Ile Glu Ile Val Leu Pro Gly Glu Pro Glu Thr Leu Asn Ala
 115 120 125
 Arg Ala Leu Thr Leu Leu Ser Asp Glu Gly Leu Ser Gln Pro Gly Ile
 130 135 140
 Phe Val Lys Thr Ser Ser Pro Lys Gly Glu Arg Glu Arg Leu Pro Asn
 145 150 155 160
 Pro Thr Leu Ala Val Thr Asp Gly Asn Val Thr Val Lys Phe His Pro
 165 170 175
 Trp Thr Ile Glu Gln Ile Val Ala Ser Glu Ala
 180 185

<210> 8750

<211> 255

<212> PRT

<213> Enterobacter cloacae

<400> 8750

Val Lys Phe Lys Glu Asp Asp Met Ala Leu Leu Glu Ile Cys Cys Tyr
 1 5 10 15
 Ser Val Glu Cys Ala Val Thr Ala Gln Arg His Gly Ala Asp Arg Ile
 20 25 30
 Glu Leu Cys Ala Ala Pro Lys Glu Gly Gly Leu Thr Pro Ser Ser Gly
 35 40 45
 Val Leu Lys Ser Ala Arg Gln Ala Ile Thr Ile Pro Val His Pro Ile
 50 55 60
 Ile Arg Pro Arg Gly Gly Asp Phe Cys Tyr Thr Ala Gly Glu Phe Ser
 65 70 75 80
 Ala Met Leu Glu Asp Ile Ala Leu Val Arg Asp Leu Gly Phe Pro Gly
 85 90 95
 Leu Val Ile Gly Val Leu Asp Glu Asp Gly Asn Ile Asp Leu Pro Arg
 100 105 110
 Met Arg Gln Val Met Arg Ala Ala Arg Gly Met Ala Val Thr Phe His
 115 120 125
 Arg Ala Phe Asp Met Cys Gln Asp Pro Ile Gln Ala Phe Asp Thr Leu

130		135		140
Ala Glu Leu Gly Val	Ala Arg Val Leu Thr Ser Gly Gln Gln Ser Ser			
145	150	155		160
Ala Glu Lys Gly Leu Lys Leu Ile Thr Glu Leu Lys Ala His Ser Gly				
	165	170		175
Val Pro Ile Ile Met Ala Gly Ala Gly Val Arg Ala Ser Asn Leu Glu				
	180	185		190
Leu Phe Leu Asn Ala Gly Val Glu Glu Leu His Ser Ser Ala Gly Lys				
	195	200		205
Trp Ile Pro Ser Pro Met Arg Tyr Arg Asn Thr Gly Leu Ser Met Ser				
	210	215		220
Thr Asp Ala Glu Ala Asp Glu Tyr Ser Arg Tyr Gly Val Asp Gly Glu				
225	230	235		240
Ser Val Ala Val Met Lys Ser Leu Ile Glu Arg His His Val				
	245	250		255

<210> 8751

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 8751

Ile Gln Leu Cys Ile Trp Pro Phe Leu Phe Ile Pro Gly Asp Phe Pro				
1	5	10	15	
Ala Thr Ser Arg Gly Ala Val Phe Pro His Lys Asn Asn Ser Trp Leu				
	20	25	30	
Phe Gly Met Gly Lys Met His Thr Ser Glu Leu Leu Lys His Ile Tyr				
	35	40	45	
Asp Ile Asn Leu Ser Tyr Leu Leu Ala Gln Arg Leu Ile Ser Gln				
	50	55	60	
Asp Lys Pro Ser Ala Met Phe Arg Leu Gly Val Asn Glu Glu Met Ala				
	65	70	75	80
Thr Met Leu Gly Gly Leu Thr Leu Pro Gln Met Val Lys Leu Ala Glu				
	85	90	95	
Thr Asn Gln Leu Val Cys Gln Phe Arg Phe Asp Asn Pro Gln Thr Ile				
	100	105	110	
Thr Arg Leu Thr Gln Glu Ser Arg Val Asp Asp Leu Gln Gln Ile His				
	115	120	125	
Thr Gly Ile Leu Leu Ser Thr Arg Leu Leu Asn Glu Ile Ser Gln Pro				
	130	135	140	
Asp Asp Val Ala Arg Lys Lys Arg Ala				
145	150			

<210> 8752

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 8752

Val Lys Gly Asn Asn Met Thr Gly Met Ser Asn Val Thr Lys Leu Ala				
1	5	10	15	
Gly Glu Pro Ser Gly Gln Glu Phe Leu Val Phe Thr Leu Gly Asp Glu				
	20	25	30	
Glu Tyr Gly Ile Asp Ile Leu Lys Val Gln Glu Ile Arg Gly Tyr Asp				
	35	40	45	
Gln Val Thr Arg Ile Ala Asn Thr Pro Ala Phe Ile Lys Gly Val Thr				
	50	55	60	
Asn Leu Arg Gly Val Ile Val Pro Ile Val Asp Leu Arg Val Lys Phe				
	65	70	75	80
Ser Gln Gly Asp Val Glu Tyr Asn Asp Asn Thr Val Val Ile Val Leu				
	85	90	95	

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Asn Leu Gly Gln Arg Val Val Gly Ile Val Val Asp Gly Val Ser Asp
      100      105      110
Val Leu Ser Leu Thr Ala Asp Gln Ile Arg Pro Ala Pro Glu Phe Ala
      115      120      125
Val Thr Leu Ser Thr Glu Tyr Leu Thr Gly Leu Gly Ala Leu Gly Glu
      130      135      140
Arg Met Leu Ile Leu Val Asn Ile Glu Lys Leu Leu Asn Ser Glu Glu
      145      150      155      160
Met Ala Leu Leu Asp Ile Ala Ala Asn His Val Ala
      165      170

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<210> 8753

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 8753

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Arg Leu Tyr Arg Glu Pro Ile Pro Thr Arg Leu Thr Ser Ala Ser Pro
1      5      10      15
Thr Asp Ser Ala Met Lys Ala Leu Cys Leu Cys Leu Arg Glu Ser Ala
      20      25      30
Glu Gly Val Val His Pro Phe Leu Ala Leu Ile Val Gly Leu Met Met
      35      40      45
Ile Cys Asp Ala Arg Ala Val Thr Ser Gln Ser Phe Arg Val Ser Ala
      50      55      60
Thr Val Val Pro Gly Cys Ser Val Ser Thr Gly Thr Gly Gly Arg Phe
      65      70      75      80
Gly Thr Leu Asp Phe Gly Thr Arg Asn Gly Val Asp Asn Thr Pro Val
      85      90      95
Ser Thr Ser Phe Val Ala Asp Gly Ala Leu Ser Ile Ala Cys Thr Pro
      100      105      110
Gly Val Ala Leu Ser Met Ser Ile Asn Gly Gly Gln Asn Tyr Ser Ser
      115      120      125
Val Arg Arg Met Thr Arg Ser Gly Gly Thr Glu Val Val Gly Tyr Arg
      130      135      140
Leu Tyr Ser Ser Ser Ser Leu Ala Ala Asn Ser Glu Ile Gly Val Asn
      145      150      155      160
Gln Ala Ile Pro Ile Thr Tyr Thr Asn Ser Asn Asn Ile Ala Leu Pro
      165      170      175
Leu Phe Gly Val Ala Leu Leu Thr Gly Phe Ser Leu Pro Gly Thr Tyr
      180      185      190
Ser Asp Gln Leu Thr Val Thr Leu Ser Trp
      195      200

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<210> 8754

<211> 800

<212> PRT

<213> Enterobacter cloacae

<400> 8754

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Cys Gln Gly Tyr Ala Met Ala Ile Asp Ala Arg Gln Leu Lys Pro Ala
1      5      10      15
Met Met Ile Leu Leu Cys Val Ser Thr Ser Ala Phe Ala Glu Thr Gly
      20      25      30
Asp Asp Ser Leu Pro Pro Pro Pro Asp Ala Arg Thr Met Asn Gly Glu
      35      40      45
Ala Val Phe Gln Leu Ala Leu Val Leu Asn His Tyr Asp Thr Gly Leu
      50      55      60
Val Val Pro Val Thr Gln Arg Glu Gly Ala Trp Phe Ile Ser Gly Ala
      65      70      75      80
Asp Leu Leu Arg Ala Gly Leu Pro Pro Ala His Val Pro Ala Gly Glu

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				85				90					95				
Val	Asn	Leu	Ser	Thr	Leu	Thr	Ser	Val	Arg	Ala	Glu	Tyr	Asp	Ser	Thr		
			100					105					110				
Ala	Gln	Arg	Leu	Leu	Leu	Thr	Val	Pro	Arg	Asp	Trp	Val	Ala	Ala	Arg		
		115					120					125					
Ile	Thr	Pro	Phe	Ser	Glu	Gln	Asn	Thr	His	Ser	Lys	Pro	His	Tyr	Gly		
	130					135					140						
Arg	Gly	Ala	Leu	Leu	Asn	Tyr	Asp	Val	Tyr	Thr	Asn	His	Ser	Glu	His		
145					150					155					160		
Thr	Gly	Gly	Gln	Ala	Ser	Val	Trp	His	Glu	Phe	Arg	Tyr	Phe	Asn	Glu		
			165						170					175			
Asp	Tyr	Ser	Phe	Ser	Ser	Thr	Gly	Tyr	Ala	Arg	Gln	Asn	Phe	Thr	Gly		
			180					185					190				
Asn	Ser	Gly	Gln	Gln	Glu	Gly	Tyr	Val	Arg	Tyr	Asp	Ser	Thr	Phe	Leu		
		195					200					205					
Ile	Thr	Asn	Glu	Glu	Asp	Ala	Thr	Thr	Trp	Thr	Val	Gly	Asp	Val	Ile		
	210					215					220						
Ser	Asp	Ala	Leu	Ser	Trp	Ser	Thr	Asn	Val	Arg	Met	Gly	Gly	Ile	Ser		
225					230					235					240		
Tyr	Gly	Arg	Asp	Phe	Ser	Leu	Arg	Pro	Asp	Leu	Val	Thr	Trp	Pro	Leu		
				245					250					255			
Pro	Ala	Phe	Ser	Gly	Glu	Ala	Ala	Val	Pro	Thr	Ser	Val	Asp	Leu	Phe		
		260						265					270				
Ile	Asn	Gly	Tyr	Arg	Ser	Gly	Ser	Thr	Arg	Leu	Gln	Pro	Gly	Pro	Phe		
	275						280					285					
Thr	Leu	Thr	Asn	Leu	Pro	Tyr	Ile	Asn	Gly	Ala	Gly	Asp	Ala	Val	Leu		
	290					295					300						
Val	Thr	Thr	Asp	Ala	Leu	Gly	Arg	Gln	Val	Ser	Thr	Thr	Leu	Pro	Phe		
305					310					315					320		
Tyr	Val	Ser	Ser	Asp	Leu	Leu	Lys	Gln	Gly	Leu	Ser	Asp	Gly	Ala	Val		
				325					330					335			
Thr	Leu	Gly	Ser	Leu	Arg	Arg	Asn	Tyr	Gly	Ile	Glu	Asn	Phe	Asp	Tyr		
			340					345					350				
Gly	Pro	Ala	Ala	Gly	Ser	Gly	Ser	Tyr	Arg	Tyr	Gly	Val	Thr	Asp	Trp		
		355					360					365					
Leu	Thr	Leu	Glu	Gly	His	Ala	Glu	Gly	Ala	Glu	Ser	Leu	Ala	Leu	Gly		
	370					375					380						
Gly	Ala	Gly	Thr	Val	Leu	Lys	Leu	Gly	Arg	Phe	Gly	Val	Val	Asn	Thr		
385					390					395					400		
Ser	Trp	Thr	Gln	Ser	Arg	Met	Arg	Gly	Asp	Ser	Gly	Gly	Gln	Ile	Asn		
				405					410					415			
Trp	Gly	Tyr	Gln	Tyr	Asn	Thr	Ser	Glu	Phe	Ser	Val	Ala	Thr	Gln	His		
			420					425					430				
Thr	Arg	Arg	Asp	Arg	Gly	Phe	Gly	Asn	Leu	Ala	Leu	Tyr	Asp	Gln	Pro		
	435						440					445					
Thr	Val	Tyr	Asp	Glu	Asn	Asp	Asn	Pro	Val	Ala	Ser	Leu	Ser	Arg	Asn		
	450					455					460						
Thr	Asp	Gln	Tyr	Ser	Leu	Thr	Phe	Asn	Leu	Gly	Gly	Tyr	Gly	Asn	Ile		
465					470					475					480		
Gly	Ala	Ala	Trp	Ile	Gly	Val	Glu	Ser	Phe	Asp	Ser	Lys	Lys	Thr	Glu		
				485					490					495			
Leu	Leu	Asn	Leu	Ser	Trp	Ser	Arg	Asn	Leu	Trp	Gly	Ser	Ser	Ser	Ile		
		500						505					510				
Tyr	Leu	Ala	Ala	Ser	Arg	Asp	Gln	Gln	Arg	Gly	Asp	Trp	Thr	Val	Ala		
	515						520					525					
Leu	Ser	Leu	Gln	Val	Pro	Leu	Gly	Glu	Arg	Asp	Ser	Ala	Ala	Val	Thr		
	530					535					540						
Phe	Glu	Asn	Thr	Pro	Asp	Ala	Gly	Ser	Thr	Gln	Arg	Ile	Asn	Tyr	Asn		
545					550					555					560		
His	Ser	Met	Pro	Ser	Asp	Gly	Gly	Phe	Ser	Trp	Asn	Met	Ala	Trp	Ala		
				565					570					575			

Asn Gln Ser Arg Ser Ser Asn Tyr Gln Gln Ala Thr Leu Gly Trp Arg
 580 585 590
 Asn Asn Asn Val Glu Leu Gln Gly Gly Tyr Gly Glu Lys Gly Met
 595 600 605
 Met Thr Trp Trp Gly Glu Ala Met Gly Ser Val Val Leu Met Asp Gly
 610 615 620
 Glu Leu Phe Ala Ala Asn Lys Ile Asn Asp Ala Phe Val Val Ile Ser
 625 630 635 640
 Thr Asp Gly His Pro Asp Val Pro Val Ser Tyr Glu Asn Gln Pro Val
 645 650 655
 Gly Lys Thr Asn Asn Lys Gly Tyr Leu Leu Val Ser Gly Val Ser Ala
 660 665 670
 Tyr Tyr Pro Ala Ser Tyr Arg Ile Asp Thr Leu Asn Leu Pro Ala Asp
 675 680 685
 Thr Arg Leu Lys Glu Thr Glu Arg Arg Val Ala Ile Arg Arg His Asn
 690 695 700
 Gly Tyr Leu Val Asp Phe Pro Met Glu Gln Glu Arg Val Ala Ser Val
 705 710 715 720
 Ile Leu His Asp Ala Gln Gly Asn Ala Ile Pro Val Gly Ser Gln Val
 725 730 735
 Arg Arg Ala Ser Arg Ser Ser Ala Val Val Gly Tyr Asp Gly Leu Ala
 740 745 750
 Trp Leu Glu Asn Leu Asn Asp Val Asn Pro Leu Glu Val Ile Thr Pro
 755 760 765
 Glu Gly Lys Arg Cys Thr Ala Thr Leu Thr Val Gly Ala Asn Pro Glu
 770 775 780
 His Lys Leu Gln Thr Tyr Gly Pro Leu Thr Cys Arg Glu Ala Pro
 785 790 795 800

<210> 8755

<211> 591

<212> PRT

<213> Enterobacter cloacae

<400> 8755

Leu Ser Thr Ser His Ser Asp Ser Arg Ala Phe Pro Phe Arg Lys Cys
 1 5 10 15
 Lys Val Pro Val Ala Cys Ala Asp Asn Thr Val Asn Lys Ser Met Arg
 20 25 30
 Arg Cys Cys Met Leu Asn Arg Ile Arg Val Val Thr Met Leu Met Met
 35 40 45
 Val Leu Val Ile Phe Ala Leu Leu Gln Leu Thr Ser Gly Gly Leu Phe
 50 55 60
 Phe Ser Ser Leu Lys Gln Asn Gln Asp Ser Phe Ala Ala Ser Asn Asp
 65 70 75 80
 Leu Arg Met Gln Gln Ser Glu Leu Thr Thr Thr Trp Asp Leu Met Leu
 85 90 95
 Gln Thr Arg Ile Asn Leu Ser Arg Ser Ser Ala Arg Met Met Met Asp
 100 105 110
 Pro Asn Asn Gln Gln Ser Ser Ala Lys Thr Glu Leu Leu Lys Asn Ala
 115 120 125
 Arg Ala Thr Leu Ala Asp Ala Ala Lys His Tyr Asp Ala Phe Lys Lys
 130 135 140
 Ile Ala Pro Gln Pro Ala Met Ala Gln Ala Ser Ala Asn Ile Asp Glu
 145 150 155 160
 Lys Tyr Gln Ala Tyr Phe Ala Gly Leu Thr Glu Leu Val Gln Phe Leu
 165 170 175
 Glu Lys Gly Asn Met Asp Ala Tyr Phe Ala Gln Pro Thr Gln Gly Met
 180 185 190
 Gln Asn Ala Leu Gly Ala Ala Leu Gly Glu Tyr Ala Lys Ala Ser Gly
 195 200 205

Glu	Leu	Tyr	His	Ser	Ala	Phe	Thr	Gln	Ser	Gln	Asn	Asp	Tyr	Arg	Phe
210						215					220				
Ala	Lys	Trp	Gln	Met	Ala	Val	Leu	Ala	Leu	Ala	Leu	Val	Ile	Val	Leu
225					230					235					240
Val	Ala	Val	Trp	Tyr	Gly	Ile	Arg	His	Ile	Leu	Leu	Asn	Pro	Leu	Gly
				245					250					255	
Arg	Val	Ile	Ala	His	Ile	Arg	Asp	Ile	Gly	Arg	Gly	Asp	Leu	Thr	Lys
			260				265						270		
Thr	Leu	Ser	Val	Ser	Gly	Arg	Asn	Glu	Ile	Thr	Glu	Leu	Ala	Thr	Ser
		275					280					285			
Val	Asp	His	Met	Gln	Arg	Ser	Leu	Ile	Asp	Thr	Val	Ala	Asn	Val	Arg
	290					295					300				
Glu	Gly	Ala	Asp	Ala	Ile	Tyr	Thr	Gly	Thr	Ser	Glu	Ile	Ala	Met	Gly
305					310					315					320
Asn	Asn	Asp	Leu	Ser	Ser	Arg	Thr	Glu	Gln	Gln	Ala	Ser	Ala	Leu	Glu
			325					330						335	
Glu	Thr	Ala	Ala	Ser	Met	Glu	Gln	Leu	Thr	Ala	Thr	Val	Lys	Gln	Asn
		340					345						350		
Ala	Asp	Asn	Ala	Arg	Gln	Ala	Ser	Gln	Leu	Ala	Glu	Ser	Ala	Ser	Asp
		355					360					365			
Thr	Ala	Gln	Arg	Gly	Gly	Arg	Val	Val	Asp	Gly	Val	Val	Lys	Thr	Met
	370					375					380				
His	Asp	Ile	Ala	Asp	Ser	Ser	Lys	Lys	Ile	Ala	Asp	Ile	Ile	Ser	Val
385					390					395					400
Ile	Asp	Gly	Ile	Ala	Phe	Gln	Thr	Asn	Ile	Leu	Ala	Leu	Asn	Ala	Ala
			405					410						415	
Val	Glu	Ala	Ala	Arg	Ala	Gly	Glu	Gln	Gly	Arg	Gly	Phe	Ala	Val	Val
		420					425						430		
Ala	Gly	Glu	Val	Arg	Asn	Leu	Ala	Ser	Arg	Ser	Ala	Asn	Ala	Ala	Lys
		435					440					445			
Glu	Ile	Lys	Ala	Leu	Ile	Glu	Asp	Ser	Val	Ser	Arg	Val	Asp	Thr	Gly
	450					455					460				
Ser	Val	Leu	Val	Glu	Ser	Ala	Gly	Glu	Thr	Met	Asn	Asp	Ile	Val	Asn
465					470					475					480
Ala	Val	Thr	Arg	Val	Thr	Asp	Ile	Met	Gly	Glu	Ile	Ala	Ser	Ala	Ser
			485					490						495	
Asp	Glu	Gln	Ser	Arg	Gly	Ile	Asp	Gln	Val	Ala	Leu	Ala	Val	Ser	Glu
		500					505						510		
Met	Asp	Arg	Val	Thr	Gln	Gln	Asn	Ala	Ala	Leu	Val	Gln	Glu	Ser	Ala
		515					520					525			
Ala	Ala	Ala	Ala	Ala	Leu	Glu	Asp	Gln	Ala	Ser	Arg	Leu	Lys	Met	Ala
		530				535					540				
Val	Ser	Ala	Phe	Arg	Leu	Thr	Ser	Lys	Thr	Thr	Asn	Thr	Val	Ser	Ser
545					550					555					560
Arg	Ser	Val	Tyr	Gly	Glu	Ala	Ala	Pro	Ala	Pro	Val	Thr	Ala	Arg	Thr
			565					570						575	
Arg	Ala	Ala	Val	Thr	Gly	Gln	Asp	Glu	Asn	Trp	Glu	Thr	Phe		
			580					585					590		

<210> 8756

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 8756

Glu	Gly	Ala	Met	Thr	Ser	Pro	Met	Pro	Ser	Gly	Gln	Thr	Ser	Leu	Leu
1			5					10						15	
Leu	Gln	Met	Thr	Gln	Arg	Leu	Ala	Leu	Ser	Asp	Ala	His	Phe	Arg	Arg
		20					25					30			
Ile	Cys	Gln	Leu	Ile	Tyr	Gln	Arg	Ala	Gly	Ile	Val	Leu	Ala	Asp	His
		35					40					45			

Lys Arg Asp Met Val Tyr Asn Arg Leu Val Arg Arg Leu Arg Thr Leu
 50 55 60
 Gly Leu Tyr Asp Phe Gly Arg Tyr Leu Ser Met Leu Glu Ala Asn Gln
 65 70 75 80
 Asn Ser Ala Glu Trp Gln Ala Phe Ile Asn Ser Leu Thr Thr Asn Leu
 85 90 95
 Thr Ala Phe Phe Arg Glu Ala His His Phe Pro Val Leu Ala Glu His
 100 105 110
 Ala Arg Arg Arg Gly Gly Glu Tyr Arg Val Trp Ser Ala Ala Ala Ser
 115 120 125
 Thr Gly Glu Glu Pro Tyr Ser Leu Ala Ile Thr Leu Ala Asp Thr Leu
 130 135 140
 Gly Met Ala Pro Gly Arg Trp Lys Val Tyr Ala Ser Asp Ile Asp Thr
 145 150 155 160
 Glu Val Leu Glu Lys Ala Arg Asn Gly Val Tyr Arg Gln Asp Glu Leu
 165 170 175
 Lys Thr Leu Ser Pro Gln Gln Leu Gln Arg Tyr Phe Met Arg Gly Thr
 180 185 190
 Gly Pro His Glu Gly Leu Val Arg Val Arg Gln Glu Leu Ala Asn Cys
 195 200 205
 Val Glu Phe Ala Pro Val Asn Leu Leu Asp Lys Gln Tyr Asn Val Pro
 210 215 220
 Gly Pro Phe Asp Ala Ile Phe Cys Arg Asn Val Met Ile Tyr Phe Asp
 225 230 235 240
 Lys Thr Thr Gln Gln Asp Ile Leu Arg Arg Phe Val Pro Leu Leu Lys
 245 250 255
 Pro Asp Gly Leu Leu Phe Ala Gly His Ser Glu Asn Phe Ser Asn Leu
 260 265 270
 Val Arg Glu Phe Ser Leu Arg Gly Gln Thr Val Tyr Ala Leu Ser Lys
 275 280 285
 Glu Lys Ala
 290

<210> 8757

<211> 698

<212> PRT

<213> Enterobacter cloacae

<400> 8757

Thr Arg Arg Thr Leu Met Ala Asn Leu Val Ala Met Leu Arg Leu Pro
 1 5 10 15
 Gly Asn Leu Lys Ser Thr Gln Trp Gln Ile Leu Ala Gly Pro Ile Leu
 20 25 30
 Ile Leu Leu Ile Leu Ser Met Met Val Leu Pro Leu Pro Ala Phe Ile
 35 40 45
 Leu Asp Leu Leu Phe Thr Phe Asn Ile Ala Leu Ser Ile Met Val Leu
 50 55 60
 Leu Val Ala Met Phe Thr Gln Arg Thr Leu Glu Phe Ala Ala Phe Pro
 65 70 75 80
 Thr Ile Leu Leu Phe Thr Thr Leu Leu Arg Leu Ala Leu Asn Val Ala
 85 90 95
 Ser Thr Arg Ile Ile Leu Met Glu Gly His Thr Gly Ala Ala Ala Ala
 100 105 110
 Gly Lys Val Val Glu Ala Phe Gly His Phe Leu Val Gly Gly Asn Phe
 115 120 125
 Ala Ile Gly Ile Val Val Phe Val Ile Leu Val Ile Ile Asn Phe Met
 130 135 140
 Val Ile Thr Lys Gly Ala Gly Arg Ile Ala Glu Val Gly Ala Arg Phe
 145 150 155 160
 Val Leu Asp Gly Met Pro Gly Lys Gln Met Ala Ile Asp Ala Asp Leu
 165 170 175

Asn	Ala	Gly	Leu	Ile	Ala	Glu	Asp	Glu	Ala	Lys	Lys	Arg	Arg	Ala	Glu
			180					185					190		
Val	Thr	Gln	Glu	Ala	Asp	Phe	Tyr	Gly	Ser	Met	Asp	Gly	Ala	Ser	Lys
		195					200					205			
Phe	Val	Arg	Gly	Asp	Ala	Ile	Ala	Gly	Ile	Leu	Ile	Met	Val	Ile	Asn
	210					215					220				
Val	Val	Gly	Gly	Leu	Leu	Val	Gly	Val	Leu	Gln	His	Gly	Met	Asp	Met
225					230					235					240
Gly	His	Ala	Ala	Glu	Ser	Tyr	Thr	Leu	Leu	Thr	Ile	Gly	Asp	Gly	Leu
				245						250				255	
Val	Ala	Gln	Ile	Pro	Ala	Leu	Val	Ile	Ser	Thr	Ala	Ala	Gly	Val	Ile
			260					265					270		
Val	Thr	Arg	Val	Ser	Thr	Asp	Gln	Asp	Val	Gly	Glu	Gln	Met	Val	Gly
		275					280					285			
Gln	Leu	Phe	Ser	Asn	Pro	Arg	Val	Met	Leu	Leu	Ser	Ala	Ala	Val	Leu
	290					295					300				
Gly	Leu	Leu	Gly	Met	Val	Pro	Gly	Met	Pro	Asn	Leu	Val	Phe	Leu	Leu
305					310					315					320
Phe	Thr	Ala	Ala	Leu	Leu	Gly	Leu	Ala	Trp	Trp	Met	Arg	Gly	Arg	Glu
				325					330					335	
Thr	Gln	Pro	Lys	Ala	Glu	Pro	Ala	Pro	Val	Lys	Met	Pro	Glu	Asn	Thr
			340					345					350		
Gln	Ala	Val	Glu	Ala	Thr	Trp	Asn	Asp	Val	Gln	Leu	Glu	Asp	Ser	Leu
		355					360					365			
Gly	Met	Glu	Val	Gly	Tyr	Arg	Leu	Ile	Pro	Met	Val	Asp	Phe	Gln	Gln
	370					375					380				
Asp	Gly	Glu	Leu	Leu	Gly	Arg	Ile	Arg	Ser	Ile	Arg	Lys	Lys	Phe	Ala
385					390					395					400
Gln	Asp	Met	Gly	Phe	Leu	Pro	Pro	Val	Val	His	Ile	Arg	Asp	Asn	Met
				405					410					415	
Asp	Leu	Pro	Pro	Ala	Arg	Tyr	Arg	Ile	Leu	Met	Lys	Gly	Val	Glu	Ile
			420					425					430		
Gly	Ser	Gly	Asp	Ala	Tyr	Pro	Gly	Arg	Trp	Leu	Ala	Ile	Asn	Pro	Gly
		435					440					445			
Thr	Ala	Ala	Gly	Thr	Leu	Pro	Gly	Glu	Gln	Thr	Thr	Asp	Pro	Ala	Phe
	450					455					460				
Gly	Leu	Ala	Ala	Ile	Trp	Ile	Glu	Ser	Ala	Leu	Lys	Glu	Gln	Ala	Gln
465					470					475					480
Ile	Gln	Gly	Tyr	Thr	Val	Val	Glu	Ala	Ser	Thr	Val	Val	Ala	Thr	His
				485					490					495	
Leu	Asn	His	Leu	Ile	Gly	Gln	Phe	Ser	Ala	Glu	Leu	Phe	Gly	Arg	Gln
			500					505					510		
Glu	Ala	Gln	Gln	Leu	Leu	Asp	Arg	Val	Thr	Gln	Glu	Met	Pro	Lys	Leu
		515					520					525			
Thr	Glu	Asp	Leu	Val	Pro	Gly	Val	Leu	Thr	Leu	Thr	Thr	Leu	His	Lys
	530					535					540				
Val	Leu	Gln	Asn	Leu	Leu	Asp	Glu	Lys	Val	Pro	Ile	Arg	Asp	Met	Arg
545					550					555					560
Thr	Ile	Leu	Glu	Thr	Leu	Ala	Glu	His	Ala	Pro	Leu	Gln	Ser	Asp	Pro
				565					570					575	
His	Glu	Leu	Thr	Ala	Val	Val	Arg	Val	Ala	Leu	Gly	Arg	Ala	Ile	Thr
			580					585					590		
Gln	Gln	Trp	Phe	Pro	Gly	Thr	Gly	Glu	Val	Gln	Val	Ile	Gly	Leu	Asp
		595					600					605			
Thr	Pro	Leu	Glu	Arg	Leu	Leu	Gln	Ala	Leu	Gln	Gly	Gly	Gly	Gly	Gly
	610					615					620				
Leu	Glu	Pro	Gly	Leu	Ala	Asp	Arg	Leu	Leu	Ala	Gln	Thr	Gln	Glu	Ala
625					630					635					640
Leu	Ala	Arg	Gln	Glu	Met	Leu	Gly	Ala	Pro	Pro	Val	Leu	Leu	Val	Asn
				645					650					655	
His	Ala	Leu	Arg	Pro	Leu	Leu	Ser	Arg	Phe	Leu	Arg	Arg	Ser	Leu	Asn

660 665 670
 Gln Leu Val Val Leu Ser Asn Met Glu Leu Ser Asp Asn Arg Asn Ile
 675 680 685
 Arg Met Thr Ala Thr Ile Gly Gly Lys
 690 695

<210> 8758

<211> 389

<212> PRT

<213> Enterobacter cloacae

<400> 8758

Ile Arg His Thr Thr Glu Val Lys Met Met Lys Val Trp Pro Val Lys
 1 5 10 15
 His Ser Pro Leu Leu Arg Gln Pro Glu Arg Phe Ile Ala Arg Asp Glu
 20 25 30
 Leu Lys Ser Leu Ile Gln Lys Val Thr His Asn Leu Val Asn Ile His
 35 40 45
 Asp Lys Thr Gly Glu Phe Leu Leu Arg Leu Asp Asp Gly Arg Val Ile
 50 55 60
 Asp Thr Lys Gly Trp Ala Gly Trp Glu Trp Thr His Gly Val Gly Leu
 65 70 75 80
 Tyr Gly Ile Trp Gln Tyr Tyr Cys Gln Thr Gly Asp Glu Gly Met Arg
 85 90 95
 Glu Val Ile Asp Ser Trp Phe Thr Asp Arg Phe Ala Glu Gly Ala Thr
 100 105 110
 Thr Lys Asn Val Asn Thr Met Ser Pro Phe Leu Thr Leu Ala Tyr Arg
 115 120 125
 Tyr Glu Glu Thr Lys Asn Pro Ala Trp Leu Pro Trp Leu Glu Ser Trp
 130 135 140
 Ala Glu Trp Ala Met Asn Asp Met Pro Arg Thr Glu His Gly Gly Met
 145 150 155 160
 Gln His Ile Thr Leu Ala Glu Glu Asn His Gln Gln Met Trp Asp Asp
 165 170 175
 Thr Leu Met Met Thr Val Leu Pro Leu Ala Lys Ile Gly Lys Leu Leu
 180 185 190
 Asn Lys Pro Glu Tyr Val Glu Glu Ala Ile Tyr Gln Phe Leu Leu His
 195 200 205
 Val Gln Asn Leu Met Asp Arg Glu Thr Gly Leu Trp Phe His Gly Trp
 210 215 220
 Asn Tyr Asp Gly Asn His Asn Phe Val Arg Ala Arg Trp Ala Arg Gly
 225 230 235 240
 Asn Ser Trp Leu Thr Ile Val Ile Pro Asp Phe Leu Glu Leu Val Asp
 245 250 255
 Leu Pro Glu Asn Asn Ala Val Arg Arg Tyr Leu Val Gln Val Leu Asn
 260 265 270
 Ala Gln Thr Ala Ala Leu Ala Lys Phe Gln Asp Glu Ser Gly Leu Trp
 275 280 285
 His Thr Leu Leu Asp Asp Pro Glu Ser Tyr Leu Glu Ala Ser Ala Thr
 290 295 300
 Ala Gly Phe Ala Tyr Gly Ile Leu Lys Ala Val Arg Lys Arg Tyr Val
 305 310 315 320
 Gly Ala Glu Tyr Ala Glu Val Ala Glu Lys Ala Ile Arg Gly Ile Val
 325 330 335
 Lys Asn Ile Ser Pro Glu Gly Glu Leu Leu Gln Thr Ser Phe Gly Thr
 340 345 350
 Gly Met Gly Ser Asp Leu Ala Phe Tyr Arg Gln Ile Pro Leu Thr Ser
 355 360 365
 Met Pro Tyr Gly Gln Ala Met Ala Ile Leu Cys Leu Thr Glu Tyr Leu
 370 375 380
 Arg Lys Tyr Phe

385

<210> 8759

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 8759

Gln	Lys	Tyr	Val	Gln	Lys	Asn	Leu	Phe	Pro	Leu	Asp	Asp	Val	Ile	Asp
1				5					10					15	
Asn	Val	Gln	Glu	Glu	Thr	Lys	Asp	Leu	Asp	Ile	Gly	Asp	Leu	Gln	Val
		20						25					30		
Ala	Gln	Lys	Val	Val	Met	Glu	Lys	Ile	Thr	Gln	Ser	Val	Glu	Ser	Val
		35					40					45			
Cys	Glu	Lys	Thr	Tyr	Ser	Thr	Lys	Trp	Glu	Thr	Ser	Asp	Leu	Ile	Thr
	50					55					60				
Phe	Asp	Asn	Lys	Asp	Lys	Tyr	Ala	Arg	Ile	Ser	Lys	Asn	Asn	Thr	Gly
65					70					75				80	
Arg	Lys	Ile	Arg	Ser	Glu	Phe	Asn	Arg	Ile	Asn	Ala	Gly	Phe	Ile	Lys
				85				90						95	
Glu	Leu	Glu	Glu	Phe	Ile	Lys	Glu	Thr	Leu	Lys	Val	Ser	Glu		
			100					105					110		

<210> 8760

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 8760

Tyr	Leu	Gln	Glu	Asn	His	Met	Val	Leu	Val	Thr	Arg	Pro	Ala	Pro	Asp
1				5					10					15	
Phe	Thr	Ala	Ala	Ala	Val	Leu	Gly	Asn	Gly	Glu	Ile	Val	Glu	Asn	Phe
		20					25						30		
Asn	Phe	Lys	Gln	His	Thr	Asn	Gly	Lys	Ala	Thr	Val	Leu	Phe	Phe	Trp
		35					40					45			
Pro	Met	Asp	Phe	Thr	Phe	Val	Cys	Pro	Ser	Glu	Leu	Ile	Ala	Phe	Asp
	50					55				60					
Lys	Arg	Tyr	Glu	Glu	Phe	Gln	Lys	Arg	Gly	Val	Glu	Val	Val	Gly	Val
65					70					75				80	
Ser	Phe	Asp	Ser	Glu	Phe	Val	His	Asn	Ala	Trp	Arg	Asn	Thr	Pro	Val
				85				90					95		
Glu	Asn	Gly	Gly	Ile	Gly	Ala	Val	Lys	Tyr	Ala	Met	Val	Ala	Asp	Ile
		100						105					110		
Lys	Arg	Glu	Ile	Gln	Gln	Ala	Tyr	Gly	Ile	Glu	His	Pro	Asp	Ala	Gly
	115						120					125			
Val	Ala	Leu	Arg	Gly	Ser	Phe	Leu	Ile	Asp	Ala	Asn	Gly	Ile	Val	Arg
	130					135					140				
His	Gln	Val	Val	Asn	Asp	Leu	Pro	Leu	Gly	Arg	Asn	Ile	Asp	Glu	Met
145					150					155				160	
Leu	Arg	Met	Val	Asp	Ala	Leu	Gln	Phe	His	Glu	Glu	His	Gly	Glu	Val
			165					170					175		
Cys	Pro	Ala	Gln	Trp	Glu	Lys	Gly	Lys	Glu	Gly	Met	Ala	Ala	Ser	Pro
		180					185						190		
Asp	Gly	Val	Ala	Lys	Tyr	Leu	Ser	Glu	Asn	Val	Ser	Ser	Leu		
		195					200					205			

<210> 8761

<211> 1049

<212> PRT

<213> Enterobacter cloacae

<400> 8761

Arg	Gly	Arg	Lys	Arg	Met	Lys	Ile	Leu	Ser	Leu	Arg	Leu	Lys	Asn	Leu
1				5					10					15	
Asn	Ser	Leu	Lys	Gly	Glu	Trp	Lys	Ile	Asp	Phe	Thr	Ala	Glu	Pro	Phe
			20					25					30		
Ala	Ser	Asn	Gly	Leu	Phe	Ala	Ile	Thr	Gly	Ala	Thr	Gly	Ala	Gly	Lys
		35					40					45			
Thr	Thr	Leu	Leu	Asp	Ala	Ile	Cys	Leu	Ala	Leu	Tyr	His	Glu	Thr	Pro
	50					55					60				
Arg	Leu	Asn	Lys	Val	Ser	Gln	Ala	Gln	Asn	Asp	Leu	Met	Thr	Arg	Asp
65					70				75					80	
Thr	Ala	Glu	Cys	Leu	Ala	Glu	Val	Glu	Phe	Glu	Val	Lys	Gly	Val	Ala
			85					90						95	
Tyr	Arg	Ala	Phe	Trp	Ser	Gln	Asn	Arg	Ala	Arg	Asn	Gln	Pro	Asp	Gly
			100					105					110		
Asn	Leu	Gln	Ala	Pro	Arg	Val	Glu	Leu	Ala	Arg	Cys	Glu	Asp	Gly	Lys
		115					120					125			
Ile	Leu	Ala	Asp	Lys	Val	Thr	Asp	Lys	Leu	Glu	Gln	Thr	Ala	Ala	Leu
	130					135						140			
Thr	Gly	Leu	Asp	Tyr	Gly	Arg	Phe	Thr	Arg	Ser	Met	Leu	Leu	Ser	Gln
145					150					155					160
Gly	Gln	Phe	Ala	Ala	Phe	Leu	Asn	Ala	Lys	Pro	Ser	Asp	Arg	Ala	Glu
			165					170						175	
Leu	Leu	Glu	Glu	Leu	Thr	Gly	Thr	Glu	Ile	Tyr	Gly	Gln	Ile	Ser	Ala
		180					185						190		
Met	Val	Phe	Glu	Lys	His	Lys	Ala	Ala	Arg	Asn	Ala	Leu	Glu	Met	Cys
	195						200					205			
Glu	Ala	Gln	Ala	Ala	Gly	Val	Val	Leu	Leu	Ser	Glu	Glu	Gln	Gln	Gln
	210					215					220				
His	Leu	Gln	Gln	Ser	Leu	Gln	Ala	Leu	Thr	Asp	Glu	Glu	Lys	Ile	Leu
225					230					235					240
Leu	Ala	Gln	Gln	Gln	Ser	Gln	Gln	Lys	Asp	Phe	Gln	Trp	Leu	Thr	Arg
			245					250						255	
Asn	Asp	Glu	Leu	Ile	Arg	Glu	Gln	Gln	Arg	Ala	Ala	Ala	Ser	Gln	Gln
		260					265						270		
Gln	Ala	Gln	Gln	Ala	Leu	Thr	Asp	Ala	Ala	Pro	Gln	Leu	Ala	Lys	Leu
	275						280					285			
Gln	Leu	Ala	Gln	Pro	Ala	Ala	Gln	Leu	Arg	Pro	Leu	Trp	Glu	His	Gln
	290					295					300				
Gln	Glu	Gln	Thr	Ala	Arg	Leu	Ser	Gln	Thr	Ala	Glu	Arg	Ile	Val	Glu
305					310					315					320
Val	Asn	Thr	Arg	Leu	Leu	Asp	Arg	Ala	Ala	Gln	Arg	Ala	Cys	Ile	Arg
			325					330						335	
Asn	Gly	Ala	Gln	Arg	Asn	Arg	Glu	Gln	Leu	Gln	Thr	Glu	His	Thr	Ala
		340						345					350		
Leu	Thr	Gln	Trp	Leu	Thr	Glu	His	Asp	Arg	Phe	Arg	Gln	Trp	Gly	Gln
	355					360						365			
Glu	Ile	Ala	Gly	Trp	Arg	Ala	His	Phe	Thr	Gln	Leu	Asn	Arg	Asp	Lys
	370					375					380				
Asn	Gln	Leu	Val	Ala	Lys	Ala	Ala	Arg	Met	Ala	Glu	Leu	Arg	Gln	Lys
385					390				395						400
Leu	Ala	Glu	Met	Pro	Glu	Ser	Thr	Leu	Thr	Leu	Thr	Ala	Glu	Asp	Leu
			405						410					415	
Ala	Thr	Ala	Met	Glu	Gln	Gln	Ala	Gln	Ser	Arg	Ala	Leu	Arg	Gln	Arg
		420					425						430		
Leu	Thr	Ala	Leu	His	Ala	Arg	Tyr	Gln	Pro	Leu	Gln	Lys	Arg	Leu	Arg
	435						440					445			
Gln	Asn	Ala	Glu	Ser	Val	Gln	Lys	Ala	Gln	Ala	Glu	Gln	Gly	Lys	Leu
	450					455					460				
Asn	Glu	Thr	Leu	Ile	Leu	Arg	Arg	Gln	Gln	Phe	Lys	Glu	Lys	Asn	Gln
465					470					475					480

His Tyr Ala Asp Leu Lys Ala Leu Cys Glu Arg Glu Ala Thr Ile Lys
 485 490 495
 Asp Leu Glu Asn Tyr Arg Ala Gln Leu Glu Ala Gly Lys Pro Cys Pro
 500 505 510
 Leu Cys Gly Ser Arg Glu His Pro Ala Val Val Gln Tyr Gln Ala Leu
 515 520 525
 Glu Leu Thr Asp Asn Gln Arg Arg Arg Asp Ala Leu Glu Lys Glu Val
 530 535 540
 Ala Ala Leu Lys Glu Glu Gly Leu Leu Val Leu Gly Gln Val Asn Ala
 545 550 555 560
 Leu Thr Gln Gln Ile Gln Arg Glu Thr Glu Glu Ala Gln Ala Leu Ser
 565 570 575
 Gln Glu Glu Gln Ala Leu Thr Lys Glu Trp Leu Glu Val Cys Thr Ser
 580 585 590
 Leu Asn Ile Ala Leu Asn Ile Gln Asp Asp Ile Ala Leu Trp Met Ser
 595 600 605
 Ala Gln Glu Gln Tyr Glu Arg Gln Leu Tyr Gln Leu Ser Gln Arg Leu
 610 615 620
 Thr Leu Gln Asn Gln Leu Ile Glu Gln Glu Gly Gln Ala Arg Gln Tyr
 625 630 635 640
 Gln Gln Gln Leu Thr Ala Thr Arg Gln Ala Leu Ala Ala Ser Leu Glu
 645 650 655
 Ser Leu Ser Leu Ser Val Pro Asp Glu Gly Ala Glu Ser Ala Trp Leu
 660 665 670
 Ser Ala Arg Glu Ser Glu Tyr Thr Leu Trp Gln Glu Lys Gln Ala Gln
 675 680 685
 His Gly Thr Ile Gln Glu Arg Ile Asn Ala Leu Met Pro Ile Leu Glu
 690 695 700
 Thr Leu Pro Val Thr Asp Asp Thr Glu Ala Asp Ala Val Ile Pro Glu
 705 710 715 720
 Lys Trp Arg Gly Ile His Asp Glu Cys Val Ser Leu Gln Ser Gln Leu
 725 730 735
 Thr Thr Leu Gln Gln Gln Glu Thr Leu Glu Arg Glu Arg Leu Gln Gln
 740 745 750
 Ser Gln Ala Gln Phe Asn Ala Ala Leu Thr Ala Ser Cys Phe Ala Asp
 755 760 765
 Arg Glu Ala Phe Leu Ser Ala Leu Leu Asp Glu Ala Ser Ile Arg Gln
 770 775 780
 Leu Glu Gln Gln Lys Gln Thr Leu Glu Asn Gln Leu Gln Gln Thr Thr
 785 790 795 800
 Ala Leu Ser Val Gln Ala Ser Gln Gln Leu Gln Ala His Gln Ala Gln
 805 810 815
 Arg Pro Glu Gly Leu Glu Thr Asp Ala Ala Thr Leu Gln Ala Gln Leu
 820 825 830
 His Gln Leu Ala Gln Gln Leu Arg Asp Asn Thr Thr His Gln Gly Glu
 835 840 845
 Ile Arg Gln Gln Leu Lys Gln Asp Ala Asp Asn Arg Leu His Gln Gln
 850 855 860
 Ala Leu Met Gln Gln Ile Glu Glu Ala Ala Arg Gln Ala Asp Asp Trp
 865 870 875 880
 Gly Tyr Leu Asn Ala Leu Ile Gly Ser Ser Thr Gly Asp Lys Phe Arg
 885 890 895
 Lys Phe Ala Gln Gly Leu Thr Leu Asp Asn Leu Val Trp Leu Ala Asn
 900 905 910
 Gln Gln Leu Asn Arg Leu His Gly Arg Tyr Leu Leu Gln Arg Lys Ala
 915 920 925
 Ser Asp Ala Leu Glu Leu Glu Val Val Asp Thr Trp Gln Ala Asp Ala
 930 935 940
 Ile Arg Asp Thr Arg Thr Leu Ser Gly Gly Glu Ser Phe Leu Val Ser
 945 950 955 960
 Leu Ala Leu Ala Leu Ala Leu Ser Asp Leu Val Ser His Lys Thr Arg

				965					970					975			
Ile	Asp	Ser	Leu	Phe	Leu	Asp	Glu	Gly	Phe	Gly	Thr	Leu	Asp	Ser	Glu		
			980					985					990				
Thr	Leu	Asp	Thr	Ala	Leu	Asp	Ala	Leu	Asp	Ala	Leu	Asn	Ala	Thr	Gly		
		995					1000					1005					
Lys	Thr	Ile	Gly	Val	Ile	Ser	His	Val	Glu	Ala	Met	Lys	Glu	Arg	Ile		
	1010					1015					1020						
Pro	Val	Gln	Ile	Lys	Val	Lys	Lys	Ile	Asn	Gly	Leu	Gly	Tyr	Ser	Arg		
1025					1030					1035					1040		
Leu	Asp	Arg	Glu	Phe	Ala	Val	Asn										
				1045													

<210> 8762

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 8762

Phe	Asn	Asp	Lys	Ala	Val	Glu	Ile	Ile	Met	Leu	Trp	Phe	Lys	Asn	Leu		
1			5						10					15			
Met	Val	Tyr	Arg	Leu	Ser	Arg	Asp	Val	Ser	Leu	His	Ala	Glu	Glu	Met		
			20					25					30				
Glu	Lys	Gln	Leu	Ala	Ala	Tyr	Ser	Phe	Thr	Pro	Cys	Gly	Ser	Gln	Asp		
		35					40					45					
Met	Ala	Lys	Thr	Gly	Trp	Val	Pro	Pro	Met	Gly	Ser	Gln	Ser	Asp	Ala		
	50					55				60							
Leu	Thr	His	Ala	Ser	Ser	Thr	Gly	Gln	Ile	Ile	Val	Cys	Ala	Arg	Lys		
65					70					75					80		
Glu	Glu	Lys	Ile	Leu	Pro	Thr	Pro	Val	Val	Lys	Gln	Ala	Leu	Glu	Ala		
			85						90						95		
Lys	Ile	Phe	Lys	Leu	Glu	Ala	Glu	Gln	Gly	Arg	Lys	Leu	Lys	Lys	Thr		
			100					105					110				
Glu	Lys	Asp	Ser	Leu	Lys	Asp	Glu	Val	Leu	His	Ser	Leu	Leu	Pro	Arg		
		115					120					125					
Ala	Phe	Ser	Arg	Phe	Ser	Gln	Thr	Met	Met	Trp	Ile	Asp	Thr	Val	Asn		
	130					135					140						
Gly	Leu	Ile	Met	Val	Asp	Cys	Ala	Ser	Ala	Lys	Lys	Ala	Glu	Asp	Thr		
	145				150					155					160		
Leu	Ala	Leu	Leu	Arg	Lys	Ser	Leu	Gly	Ser	Leu	Pro	Val	Val	Pro	Leu		
				165					170						175		
Ala	Leu	Glu	Thr	Pro	Ile	Glu	Leu	Thr	Leu	Thr	Glu	Trp	Val	Arg	Ser		
		180						185					190				
Gly	Thr	Ala	Ala	Gln	Gly	Phe	Gln	Ile	Leu	Asp	Glu	Ala	Glu	Leu	Lys		
		195					200					205					
Ala	Leu	Leu	Glu	Asp	Gly	Gly	Val	Ile	Arg	Ala	Lys	Lys	Gln	Glu	Leu		
	210				215						220						
Val	Ser	Asp	Glu	Ile	Ala	Val	His	Ile	Glu	Ala	Gly	Lys	Val	Val	Thr		
	225				230					235					240		
Lys	Leu	Ala	Leu	Asp	Trp	Gln	Gln	Arg	Ile	Gln	Phe	Val	Met	Cys	Asp		
				245					250					255			
Asp	Gly	Ser	Val	Lys	Arg	Leu	Lys	Phe	Cys	Asp	Glu	Leu	Arg	Asp	Gln		
		260						265					270				
Asn	Glu	Asp	Ile	Asp	Arg	Glu	Asp	Tyr	Ala	Gln	Arg	Phe	Asp	Ala	Asp		
		275					280					285					
Phe	Ile	Leu	Met	Thr	Gly	Glu	Leu	Ala	Ala	Leu	Ile	Gln	Asn	Leu	Val		
	290					295					300						
Glu	Gly	Leu	Gly	Gly	Glu	Ala	Gln	Arg									
305					310												

<210> 8763

<211> 274

<212> PRT

<213> Enterobacter cloacae

<400> 8763

Arg	Arg	Asp	Val	Met	Asp	Lys	Lys	Ile	Gly	Phe	Ile	Gly	Cys	Gly	Asn
1				5					10					15	
Met	Gly	Lys	Ala	Ile	Leu	Gly	Gly	Leu	Ile	Ala	Ser	Gly	Gln	Val	Leu
			20					25					30		
Pro	Gly	Gln	Ile	Trp	Val	Tyr	Thr	Pro	Ser	Pro	Asp	Lys	Val	Ala	Ala
		35					40					45			
Leu	Arg	Asp	Glu	Tyr	Gly	Val	Asn	Ala	Ala	Glu	Ser	Ala	Gln	Glu	Val
	50					55					60				
Ala	Gln	Val	Ala	Asp	Ile	Val	Phe	Gly	Ala	Val	Lys	Pro	Asn	Ile	Met
65					70					75					80
Ile	Lys	Val	Leu	Ser	Glu	Ile	Thr	Ser	Ser	Leu	Asn	Lys	Glu	Thr	Leu
				85				90						95	
Val	Val	Ser	Ile	Ala	Ala	Gly	Val	Thr	Leu	Asp	Gln	Leu	Ala	Arg	Ala
			100					105					110		
Leu	Gly	His	Asp	Arg	Lys	Ile	Val	Arg	Ala	Met	Pro	Asn	Thr	Pro	Ser
		115					120					125			
Leu	Val	Asn	Ala	Gly	Met	Thr	Ser	Val	Thr	Pro	Asn	Ala	Leu	Val	Thr
	130					135					140				
Ser	Glu	Asp	Val	Ala	Asp	Val	Leu	Asn	Ile	Phe	Arg	Cys	Phe	Gly	Glu
145					150					155					160
Ala	Glu	Val	Ile	Ala	Glu	Pro	Met	Ile	His	Pro	Val	Val	Gly	Val	Ser
				165					170					175	
Gly	Ser	Ala	Pro	Ala	Tyr	Val	Phe	Met	Phe	Ile	Glu	Ala	Met	Ala	Asp
			180					185					190		
Ala	Ala	Val	Leu	Gly	Gly	Met	Pro	Arg	Ala	Gln	Ala	Tyr	Lys	Phe	Ala
		195					200					205			
Ala	Gln	Ala	Val	Met	Gly	Ser	Ala	Lys	Met	Val	Leu	Glu	Thr	Gly	Lys
	210					215					220				
His	Pro	Gly	Glu	Leu	Lys	Asp	Met	Val	Cys	Ser	Pro	Gly	Gly	Thr	Thr
225					230					235					240
Ile	Glu	Ala	Val	Arg	Val	Leu	Glu	Asp	Arg	Gly	Phe	Arg	Ser	Ala	Val
				245				250						255	
Ile	Glu	Ala	Met	Glu	Lys	Cys	Met	Glu	Lys	Ser	Glu	Lys	Leu	Ser	Lys
			260					265					270		

Ser

<210> 8764

<211> 300

<212> PRT

<213> Enterobacter cloacae

<400> 8764

Thr	Ser	Gly	Met	Ile	Met	Lys	Lys	Thr	Leu	Leu	Ala	Ala	Gly	Ala	Val
1				5					10					15	
Leu	Ala	Leu	Ser	Ser	Ser	Phe	Thr	Val	Asn	Ala	Ala	Glu	Asn	Asp	Lys
			20					25					30		
Pro	Gln	Tyr	Leu	Ser	Asp	Trp	Trp	His	Gln	Ser	Val	Asn	Val	Val	Gly
		35					40					45			
Ser	Tyr	His	Thr	Arg	Phe	Gly	Pro	Gln	Ile	Arg	Asn	Asp	Thr	Tyr	Leu
	50					55					60				
Glu	Tyr	Glu	Ala	Phe	Ala	Lys	Lys	Asp	Trp	Phe	Asp	Phe	Tyr	Gly	Tyr
65					70					75					80
Met	Asp	Ala	Pro	Val	Phe	Phe	Gly	Gly	Asn	Thr	Asp	Ala	Lys	Gly	Ile
				85				90						95	
Trp	Asn	His	Gly	Ser	Pro	Leu	Phe	Met	Glu	Ile	Glu	Pro	Arg	Phe	Ser
			100					105					110		

Ile	Asp	Lys	Leu	Thr	Gly	Thr	Ser	Leu	Ala	Phe	Gly	Pro	Phe	Lys	Glu
		115					120					125			
Trp	Tyr	Phe	Ala	Asn	Asn	Tyr	Ile	Tyr	Asp	Met	Gly	Arg	Asn	Lys	Ser
		130				135					140				
Gly	Arg	Gln	Ser	Thr	Trp	Tyr	Met	Gly	Leu	Gly	Thr	Asp	Ile	Glu	Thr
145					150					155				160	
Gly	Leu	Pro	Met	Ser	Leu	Ser	Met	Asn	Val	Tyr	Ala	Lys	Tyr	Gln	Trp
				165					170					175	
Gln	Asn	Tyr	Gly	Ala	Ala	Asn	Glu	Asn	Glu	Trp	Asp	Gly	Tyr	Arg	Phe
			180					185					190		
Lys	Val	Lys	Tyr	Phe	Val	Pro	Ile	Thr	Gln	Leu	Trp	Gly	Gly	Asn	Leu
		195					200					205			
Ser	Tyr	Ile	Gly	Phe	Thr	Asn	Phe	Asp	Trp	Gly	Ser	Asp	Leu	Gly	Asp
		210				215					220				
Asn	Asp	Phe	Arg	Asp	Leu	Asn	Gly	Arg	Lys	Ala	Arg	Thr	Asn	Asp	Ser
225					230					235					240
Ile	Ala	Ser	Ser	His	Ile	Leu	Ala	Leu	Asn	Tyr	Asp	His	Trp	His	Tyr
				245					250					255	
Ser	Val	Val	Ala	Arg	Tyr	Trp	His	Asn	Gly	Gly	Gln	Trp	Asn	Asp	Asp
			260					265					270		
Ala	Ser	Leu	Asn	Phe	Gly	Asn	Gly	Asp	Phe	Ser	Val	Arg	Ser	Thr	Gly
		275					280					285			
Trp	Gly	Gly	Tyr	Leu	Val	Val	Gly	Tyr	Asn	Phe					
	290					295					300				

<210> 8765

<211> 441

<212> PRT

<213> Enterobacter cloacae

<400> 8765

Gln	Ile	Tyr	Glu	Lys	His	Tyr	His	Tyr	Lys	Trp	Gln	Thr	Val	Val	Leu
1				5					10					15	
Leu	Gln	Arg	Leu	Phe	Ser	Val	Pro	Arg	Lys	Phe	Ile	Ile	Leu	Leu	Ser
		20						25					30		
Tyr	Tyr	Cys	His	Gly	Ser	Phe	Met	Arg	Ile	Leu	His	Thr	Ser	Asp	Trp
		35					40					45			
His	Leu	Gly	Gln	Asn	Phe	Tyr	Ser	Lys	Ser	Arg	Ala	Ala	Glu	His	Glu
	50					55					60				
Ala	Phe	Leu	Asn	Trp	Leu	Leu	Glu	Thr	Ala	Gln	Ala	His	Glu	Val	Asp
65					70					75					80
Ala	Ile	Ile	Val	Ala	Gly	Asp	Ile	Phe	Asp	Thr	Gly	Ser	Pro	Pro	Ser
			85						90					95	
Tyr	Ala	Arg	Glu	Leu	Tyr	Asn	Arg	Phe	Val	Val	Asn	Leu	Gln	Gln	Thr
			100					105					110		
Gly	Cys	His	Leu	Val	Ile	Val	Ala	Gly	Asn	His	Asp	Ser	Val	Ala	Thr
		115					120					125			
Leu	Asn	Glu	Ser	Arg	Asp	Ile	Leu	Ala	Phe	Leu	Asn	Thr	Thr	Val	Val
	130					135						140			
Ala	Ser	Ala	Gly	His	Ala	Pro	Gln	Ile	Leu	Lys	Lys	Arg	Asp	Gly	Thr
145					150					155					160
Pro	Gly	Ala	Val	Leu	Cys	Pro	Ile	Pro	Phe	Leu	His	Pro	Arg	Asp	Ile
				165						170				175	
Val	Gln	Ser	Gln	Ala	Gly	Leu	Ser	Gly	Ser	Glu	Lys	Gln	Gln	His	Leu
			180					185						190	
Leu	Gln	Ala	Ile	Thr	Arg	Tyr	Tyr	His	Gln	Gln	His	Thr	Glu	Ala	Cys
		195					200					205			
Ala	Leu	Arg	Gly	Asp	Gln	Ala	Ile	Pro	Ile	Ile	Ala	Thr	Gly	His	Leu
	210					215					220				
Thr	Thr	Val	Gly	Ala	Ser	Lys	Ser	Asp	Ala	Val	Arg	Glu	Ile	Tyr	Ile
225					230					235					240

Gly Thr Leu Asp Ala Phe Pro Ala Gln Asn Phe Pro Pro Ala Asp Tyr
 245 250 255
 Ile Ala Leu Gly His Ile His Arg Ala Gln Ile Ile Gly Gly Cys Glu
 260 265 270
 His Ile Arg Tyr Cys Gly Ser Pro Ile Ser Leu Ser Phe Asp Glu Thr
 275 280 285
 Gly Lys Ala Lys Ser Val His Leu Val Ser Phe Thr Gly Gly Lys Leu
 290 295 300
 Ser Ala Val Glu Thr Leu Glu Val Pro Val Thr Gln Pro Leu Ala Val
 305 310 315 320
 Leu Lys Gly Asp Leu Ala Ala Ile Thr Ala Gln Leu Asp Gln Trp Arg
 325 330 335
 Gly Thr Ala Leu Asn Pro Pro Val Trp Leu Asp Ile Glu Ile Thr Thr
 340 345 350
 Asp Asp Tyr Leu Tyr Asp Met Gln Arg Lys Ile Gln Thr Leu Thr Glu
 355 360 365
 Asp Leu Pro Val Glu Val Leu Leu Val Arg Arg Ser Arg Glu Gln Arg
 370 375 380
 Glu Lys Ile Leu Leu Asn Ala Gln Arg Glu Thr Leu Ser Glu Leu Arg
 385 390 395 400
 Val Glu Glu Val Phe Ala Arg Arg Leu Ala His Glu Glu Val Asp Glu
 405 410 415
 Ala Arg Arg Thr Arg Leu Asn Glu Leu Phe Ala Gln Thr Leu His Ser
 420 425 430
 Leu His Asp Glu Asp Glu Asn Ala
 435 440

<210> 8766

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 8766

Ser Ser Ala His Thr Leu Leu Leu Gln Gln Leu Ala Ala Thr Gly Gln
 1 5 10 15
 Arg Lys Arg Met Asn Phe Leu Ala His Leu His Leu Ala His Leu Ala
 20 25 30
 Asp Ser Ser Leu Ser Gly Asn Leu Leu Ala Asp Phe Val Arg Gly Asn
 35 40 45
 Pro Ala Glu Ala Tyr Ser Pro Glu Val Val Asp Gly Ile Phe Met His
 50 55 60
 Arg Arg Ile Asp Val Leu Thr Asp Asn Leu Pro Glu Val Thr Glu Ala
 65 70 75 80
 Lys Thr Trp Phe Arg Pro Glu Thr Arg Arg Val Ala Pro Ile Thr Leu
 85 90 95
 Asp Val Met Trp Asp His Phe Leu Ser Arg His Trp Pro Gln Leu Ser
 100 105 110
 Pro Asp Met Ser Leu Pro Glu Phe Val Arg Tyr Ala His Ala Gln Val
 115 120 125
 Ser Ile Ile Leu Pro Asp Ser Pro Pro Arg Phe Val Asn Leu Asn Asn
 130 135 140
 Tyr Leu Trp Ser Glu Arg Trp Leu Glu Arg Tyr Arg Glu Met Asp Phe
 145 150 155 160
 Ile Gln Asn Val Leu Asn Gly Met Ala Ser Arg Arg Pro Arg Leu Asp
 165 170 175
 Ala Leu Arg Asp Ser Trp His Asp Leu Asp Glu His Tyr Asp Ala Leu
 180 185 190
 Glu Thr Arg Phe Trp Gln Phe Tyr Pro Arg Met Met Thr Gln Ala Lys
 195 200 205
 Asn Lys Glu Leu
 210

<210> 8767
 <211> 91
 <212> PRT
 <213> Enterobacter cloacae

<400> 8767
 Gly Asn Ser Thr Met Lys Asn Leu Ile Ala Glu Leu Leu Val Lys Leu
 1 5 10 15
 Ala Gln Lys Glu Glu Ser Lys Glu Leu Val Ala Gln Val Glu Ala
 20 25 30
 Leu Glu Ile Val Val Thr Ala Leu Leu Arg Gln Met Ala Lys Pro Glu
 35 40 45
 Gln Glu Ala Leu Ile Asp Asn Val Glu Gly Ala Leu Glu Lys Ala Arg
 50 55 60
 Pro Asp Ser Gln Val Pro Ala Glu Asp Ala Glu Leu Leu Gln Gln Tyr
 65 70 75 80
 Val Lys Lys Leu Leu Arg His Pro Arg Ser
 85 90

<210> 8768
 <211> 65
 <212> PRT
 <213> Enterobacter cloacae

<400> 8768
 Ala Met Pro Thr Arg Pro Pro Tyr Pro Arg Glu Ala Arg Ile Val Thr
 1 5 10 15
 Val Glu Lys Gly Asn Gly Asp Gln Thr Val Thr Trp Tyr Gln Leu Arg
 20 25 30
 Ala Asp His Pro Lys Pro Asp Ser Leu Ile Ser Glu His Glu Thr Glu
 35 40 45
 Gln Glu Ala Leu Asp Ala Lys Arg Arg Tyr Glu Asp Pro Glu Lys Ser
 50 55 60

65

<210> 8769
 <211> 369
 <212> PRT
 <213> Enterobacter cloacae

<400> 8769
 Leu Phe Phe His Leu Phe Cys Met Gln Arg Asn Val Ala Ala Glu Thr
 1 5 10 15
 Val Asn His Gln Ile Phe Glu Pro Gln His Asp Asn Phe His Gly Leu
 20 25 30
 Val Val Lys Ser Ala Gly Met Ile Thr Asn Cys Arg Ile Ala Cys Ile
 35 40 45
 Ala Asn Arg Glu Ala Gly Phe Tyr Ser Val Asp Asn Gln Asn Asn Glu
 50 55 60
 Glu Cys Leu Val Arg Ile Gly Ile Asp Leu Gly Gly Thr Lys Thr Glu
 65 70 75 80
 Val Ile Ala Leu Ser Glu Gln Gly Glu Gln Leu Phe Arg His Arg Leu
 85 90 95
 Pro Thr Pro Arg Asp Asp Tyr His Gln Thr Ile Glu Thr Ile Ala Arg
 100 105 110
 Leu Val Asp Met Ala Glu Gln Ala Thr Gly Glu Thr Gly Thr Val Gly
 115 120 125
 Met Gly Ile Pro Gly Ser Ile Ser Pro Tyr Thr Gly Val Val Lys Asn
 130 135 140

Ala	Asn	Ser	Thr	Trp	Leu	Asn	Gly	Gln	Pro	Phe	Asp	Lys	Asp	Leu	Ser
145					150					155					160
Gln	Arg	Leu	Asn	Arg	Glu	Val	Arg	Leu	Ala	Asn	Asp	Ala	Asn	Cys	Leu
			165						170					175	
Ala	Val	Ser	Glu	Ala	Val	Asp	Gly	Ala	Ala	Ala	Gly	Ala	Gln	Thr	Val
			180					185					190		
Phe	Ala	Val	Ile	Ile	Gly	Thr	Gly	Cys	Gly	Ala	Gly	Val	Ala	Phe	Gly
	195						200					205			
Gly	Arg	Ser	His	Ile	Gly	Gly	Asn	Gly	Thr	Ala	Gly	Glu	Trp	Gly	His
	210					215					220				
Asn	Pro	Leu	Pro	Trp	Met	Asp	Glu	Asp	Glu	Leu	Lys	Tyr	Arg	Ala	Glu
225					230					235					240
Val	Pro	Cys	Tyr	Cys	Gly	Lys	Gln	Gly	Cys	Ile	Glu	Thr	Phe	Ile	Ser
				245					250					255	
Gly	Thr	Gly	Phe	Ala	Thr	Asp	Tyr	His	Arg	Leu	Ser	Gly	Gln	Pro	Leu
			260					265					270		
Lys	Gly	Asn	Glu	Ile	Met	Arg	Leu	Val	Glu	Glu	Gln	Asp	Pro	Val	Ala
	275						280					285			
Glu	Leu	Ala	Leu	Ser	Arg	Tyr	Glu	Met	Arg	Leu	Ala	Lys	Ser	Leu	Ala
	290					295					300				
His	Val	Ile	Asn	Ile	Leu	Asp	Pro	Asp	Val	Ile	Val	Leu	Gly	Gly	Gly
305					310					315					320
Met	Ser	Asn	Val	Asp	Arg	Leu	Tyr	Ala	Thr	Val	Pro	Thr	Leu	Val	Lys
				325					330					335	
Gln	Trp	Val	Phe	Gly	Gly	Glu	Cys	Glu	Thr	Pro	Ile	Arg	Lys	Ala	Val
			340					345					350		
His	Gly	Asp	Ser	Ser	Gly	Val	Arg	Gly	Ala	Ala	Trp	Leu	Trp	Pro	Glu
		355					360					365			

<210> 8770

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 8770

Leu	Lys	Tyr	Asp	Lys	Thr	Gly	Gln	Ser	Met	Ala	Arg	Arg	Ile	Leu	Val
1				5					10					15	
Val	Glu	Asp	Glu	Ala	Pro	Ile	Arg	Glu	Met	Val	Cys	Phe	Val	Leu	Glu
			20					25					30		
Gln	Asn	Gly	Phe	Gln	Pro	Val	Glu	Ala	Glu	Asp	Tyr	Asp	Ser	Ala	Val
		35					40					45			
Asn	Gln	Leu	Asn	Glu	Pro	Trp	Pro	Asp	Leu	Ile	Leu	Leu	Asp	Trp	Met
		50				55					60				
Leu	Pro	Gly	Gly	Ser	Gly	Leu	Gln	Phe	Ile	Lys	His	Ile	Lys	Arg	Glu
65				70					75					80	
Ala	Met	Thr	Arg	Asp	Ile	Pro	Val	Val	Met	Leu	Thr	Ala	Arg	Gly	Glu
				85					90					95	
Glu	Glu	Asp	Arg	Val	Arg	Gly	Leu	Glu	Thr	Gly	Ala	Asp	Asp	Tyr	Ile
			100					105					110		
Thr	Lys	Pro	Phe	Ser	Pro	Lys	Glu	Leu	Val	Ala	Arg	Ile	Lys	Ala	Val
			115				120					125			
Met	Arg	Arg	Ile	Ser	Pro	Met	Ala	Val	Glu	Glu	Val	Ile	Glu	Met	Gln
		130				135					140				
Gly	Leu	Ser	Leu	Asp	Pro	Thr	Ser	His	Arg	Val	Met	Thr	Gly	Glu	Asn
145					150					155					160
Pro	Leu	Asp	Met	Gly	Pro	Thr	Glu	Phe	Lys	Leu	Leu	His	Phe	Phe	Met
				165					170					175	
Thr	His	Pro	Glu	Arg	Val	Tyr	Ser	Arg	Glu	Gln	Leu	Leu	Asn	Asn	Val
			180					185					190		

Trp Gly Thr Asn Val Tyr Val Glu Asp Arg Thr Val Asp Val His Ile
 195 200 205
 Arg Arg Leu Arg Lys Ala Leu Glu Leu Ser Gly His Asp Arg Met Val
 210 215 220
 Gln Thr Val Arg Gly Thr Gly Tyr Arg Phe Ser Thr Arg Phe
 225 230 235

<210> 8771

<211> 433

<212> PRT

<213> Enterobacter cloacae

<400> 8771

Arg Val Leu Glu Arg Leu Ser Trp Lys Arg Leu Val Phe Glu Leu Ile
 1 5 10 15
 Leu Cys Cys Ile Pro Ala Leu Ile Leu Gly Ala Ile Phe Gly Tyr Leu
 20 25 30
 Pro Trp Phe Leu Leu Val Ala Val Thr Gly Leu Leu Val Trp His Phe
 35 40 45
 Trp Asn Leu Leu Arg Leu Ser Trp Trp Leu Trp Val Asp Arg Ser Met
 50 55 60
 Thr Pro Pro Pro Gly Ser Gly Ser Trp Glu Pro Leu Tyr Gly Leu
 65 70 75 80
 His Gln Met Gln Met Arg Asn Lys Lys Arg Arg Arg Glu Leu Gly Ser
 85 90 95
 Leu Ile Lys Arg Phe Arg Ser Gly Ala Glu Ser Leu Pro Asp Ala Val
 100 105 110
 Ile Leu Thr Thr Glu Glu Gly Thr Ile Phe Trp Cys Asn Gly Leu Ala
 115 120 125
 Gln Gln Leu Leu Gly Leu Arg Trp Pro Asp Asp Asn Gly Gln Asn Ile
 130 135 140
 Leu Asn Leu Leu Arg Tyr Pro Glu Phe Thr Leu Tyr Leu Lys Lys Arg
 145 150 155 160
 Asp Phe Ser Arg Pro His Asn Leu Lys Leu Asn Asn Gly Arg His Leu
 165 170 175
 Glu Ile Arg Val Met Pro Tyr Ser Asp Arg Gln Trp Leu Met Val Ala
 180 185 190
 Arg Asp Val Thr Gln Met His Gln Leu Glu Gly Ala Arg Arg Asn Phe
 195 200 205
 Phe Ala Asn Val Ser His Glu Leu Arg Thr Pro Leu Thr Val Leu Gln
 210 215 220
 Gly Tyr Leu Glu Met Met Gln Glu Gln Thr Leu Glu Gly Ala Pro Arg
 225 230 235 240
 Glu Lys Ala Leu His Thr Met Arg Glu Gln Thr Phe Arg Met Glu Gly
 245 250 255
 Leu Val Lys Gln Leu Leu Thr Leu Ser Lys Ile Glu Ala Ala Pro Ser
 260 265 270
 Leu Ala Leu Asn Asp Ile Ile Asp Val Pro Met Met Leu Arg Val Val
 275 280 285
 Glu Arg Glu Ala Gln Thr Leu Ser His Asn Gln His Thr Leu Ser Phe
 290 295 300
 Asp Val Asp Asn Thr Leu Lys Val Leu Gly Ser Glu Asp Glu Leu Arg
 305 310 315 320
 Ser Ala Ile Ser Asn Leu Ile Tyr Asn Ala Val Asn His Thr Pro Lys
 325 330 335
 Gly Thr His Ile Ala Val Arg Trp Gln His Thr Pro Ala Gly Ala Glu
 340 345 350
 Phe Ser Val Glu Asp Asn Gly Pro Gly Ile Gly Pro Glu His Leu Pro
 355 360 365
 Arg Leu Thr Glu Arg Phe Tyr Arg Val Asp Lys Ala Arg Ser Arg Gln
 370 375 380

Thr	Gly	Gly	Ser	Gly	Leu	Gly	Leu	Ala	Ile	Val	Lys	His	Ala	Val	Ser
385					390					395					400
His	His	Glu	Ser	Arg	Leu	Asn	Ile	Glu	Ser	Thr	Leu	Gly	Lys	Gly	Thr
				405					410					415	
Arg	Phe	Ser	Phe	Val	Ile	Pro	Glu	Arg	Leu	Ile	Ala	Lys	Lys	Ser	Ala
			420					425					430		

<210> 8772

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 8772

Gly	Phe	Met	Thr	His	His	Leu	Lys	Ser	Arg	Asp	Ile	Ile	Ala	Leu	Gly
1				5					10					15	
Phe	Met	Thr	Phe	Ala	Leu	Phe	Val	Gly	Ala	Gly	Asn	Ile	Ile	Phe	Pro
			20					25					30		
Pro	Met	Val	Gly	Leu	Gln	Ala	Gly	Glu	His	Val	Trp	Thr	Ala	Ala	Phe
		35					40					45			
Gly	Phe	Leu	Leu	Thr	Ala	Val	Gly	Leu	Pro	Val	Leu	Thr	Val	Ile	Ala
	50					55					60				
Leu	Ala	Lys	Val	Gly	Gly	Gly	Val	Asp	Ser	Leu	Ser	Thr	Pro	Ile	Gly
65				70						75					80
Lys	Val	Ala	Gly	Val	Leu	Leu	Ala	Thr	Val	Cys	Tyr	Leu	Ala	Val	Gly
				85					90					95	
Pro	Leu	Phe	Ala	Thr	Pro	Arg	Thr	Ala	Thr	Val	Ser	Phe	Glu	Val	Gly
			100					105					110		
Ile	Ala	Pro	Leu	Thr	Gly	Asp	Gly	Ala	Met	Pro	Leu	Phe	Ile	Tyr	Ser
		115					120						125		
Leu	Ile	Tyr	Phe	Ala	Ile	Val	Ile	Leu	Val	Ser	Leu	Tyr	Pro	Gly	Lys
	130					135						140			
Leu	Leu	Asp	Thr	Val	Gly	Asn	Phe	Leu	Ala	Pro	Leu	Lys	Ile	Val	Ala
145					150					155					160
Leu	Ile	Val	Leu	Ala	Val	Ala	Ala	Ile	Val	Trp	Pro	Ala	Gly	Pro	Ile
				165					170					175	
Ser	Ser	Ala	Met	Asp	Ala	Tyr	Gln	Asn	Ala	Ala	Phe	Ser	Asn	Gly	Phe
			180					185					190		
Val	Asn	Gly	Tyr	Leu	Thr	Met	Asp	Thr	Leu	Gly	Ala	Met	Val	Phe	Gly
		195					200					205			
Ile	Val	Ile	Val	Asn	Ala	Ala	Arg	Ser	Arg	Gly	Val	Thr	Glu	Ala	Arg
	210					215						220			
Leu	Leu	Thr	Arg	Tyr	Thr	Ile	Trp	Ala	Gly	Leu	Met	Ala	Gly	Val	Gly
225					230					235					240
Leu	Thr	Leu	Leu	Tyr	Leu	Ala	Leu	Phe	Arg	Leu	Gly	Ser	Asp	Ser	Ala
				245					250					255	
Thr	Leu	Val	Asp	Gln	Ser	Ala	Asn	Gly	Ala	Ala	Ile	Leu	His	Ala	Tyr
			260					265					270		
Val	Gln	His	Thr	Phe	Gly	Gly	Ala	Gly	Ser	Met	Leu	Leu	Ala	Ala	Leu
		275					280						285		
Ile	Phe	Leu	Ala	Cys	Leu	Val	Thr	Ala	Val	Gly	Leu	Thr	Cys	Ala	Cys
	290					295					300				
Ala	Glu	Phe	Phe	Ala	Gln	Tyr	Leu	Pro	Leu	Ser	Tyr	Arg	Thr	Leu	Val
305					310					315					320
Phe	Ile	Leu	Gly	Ile	Phe	Ser	Met	Ala	Val	Ser	Asn	Leu	Gly	Leu	Ser
				325					330					335	
His	Leu	Ile	Gln	Val	Ser	Ile	Pro	Val	Leu	Thr	Ala	Ile	Tyr	Pro	Pro
			340					345					350		
Cys	Ile	Val	Leu	Val	Val	Leu	Ser	Phe	Thr	Arg	Pro	Trp	Trp	His	Asn
		355					360						365		

Ser	Thr	Arg	Ile	Ile	Ala	Pro	Ala	Met	Phe	Ile	Ser	Leu	Ile	Phe	Gly
	370					375					380				
Ile	Leu	Asp	Gly	Ile	Lys	Ala	Ser	Ala	Phe	Ala	Glu	Ile	Leu	Pro	Ala
385					390					395					400
Trp	Thr	Gln	Arg	Leu	Pro	Leu	Ser	Glu	Gln	Gly	Leu	Ala	Trp	Leu	Met
				405					410					415	
Pro	Ser	Val	Val	Ala	Leu	Val	Leu	Ala	Ile	Ile	Trp	Asp	Arg	Ala	Ala
			420					425					430		
Gly	Arg	Gln	Val	Thr	Ser	Asn	Ala	His							
		435					440								

<210> 8773

<211> 485

<212> PRT

<213> Enterobacter cloacae

<400> 8773

Ser	Thr	Ala	Thr	Asn	Cys	Leu	Thr	Thr	Gly	Leu	Lys	Ala	Pro	Trp	Phe
1				5					10					15	
Phe	Val	Phe	Phe	Val	Leu	Asn	Gly	Lys	Ile	Leu	Met	Glu	Ser	Thr	Asn
			20					25					30		
Lys	Leu	Lys	Arg	Gly	Leu	Ser	Thr	Arg	His	Ile	Arg	Phe	Met	Ala	Leu
		35					40					45			
Gly	Ser	Ala	Ile	Gly	Thr	Gly	Leu	Phe	Tyr	Gly	Ser	Ala	Asp	Ala	Ile
	50					55				60					
Lys	Met	Ala	Gly	Pro	Ser	Val	Leu	Leu	Ala	Tyr	Ile	Ile	Gly	Gly	Ala
65					70				75						80
Ala	Ala	Tyr	Ile	Ile	Met	Arg	Ala	Leu	Gly	Glu	Met	Ser	Val	His	Asn
				85					90					95	
Pro	Ser	Ala	Ser	Ser	Phe	Ser	Arg	Tyr	Ala	Gln	Glu	Asn	Leu	Gly	Pro
			100					105					110		
Leu	Ala	Gly	Phe	Ile	Thr	Gly	Trp	Thr	Tyr	Cys	Phe	Glu	Ile	Leu	Ile
		115					120					125			
Val	Ala	Ile	Ala	Asp	Val	Thr	Ala	Phe	Gly	Ile	Tyr	Met	Gly	Val	Trp
	130					135				140					
Phe	Pro	Ala	Val	Pro	His	Trp	Ile	Trp	Val	Leu	Ser	Val	Val	Leu	Ile
145					150				155						160
Ile	Cys	Ala	Val	Asn	Leu	Met	Ser	Val	Lys	Val	Phe	Gly	Glu	Leu	Glu
				165					170					175	
Phe	Trp	Phe	Ser	Phe	Phe	Lys	Val	Ala	Thr	Ile	Ile	Ile	Met	Ile	Leu
			180					185					190		
Ala	Gly	Phe	Gly	Ile	Ile	Ile	Trp	Gly	Ile	Gly	Asn	Gly	Gly	Gln	Pro
		195					200				205				
Thr	Gly	Ile	His	Asn	Leu	Trp	Ser	Asn	Gly	Gly	Phe	Phe	Ser	Asn	Gly
	210					215					220				
Trp	Leu	Gly	Met	Val	Met	Ser	Leu	Gln	Met	Val	Met	Phe	Ala	Tyr	Gly
225					230				235						240
Gly	Ile	Glu	Ile	Ile	Gly	Ile	Thr	Ala	Gly	Glu	Ala	Lys	Asp	Pro	Glu
				245					250					255	
Lys	Ser	Ile	Pro	Arg	Ala	Ile	Asn	Ser	Val	Pro	Met	Arg	Ile	Leu	Val
			260					265					270		
Phe	Tyr	Val	Gly	Thr	Leu	Phe	Val	Ile	Met	Ser	Ile	Tyr	Pro	Trp	Asn
		275					280					285			
Gln	Val	Gly	Thr	Asn	Gly	Ser	Pro	Phe	Val	Leu	Thr	Phe	Gln	His	Met
	290					295					300				
Gly	Ile	Ala	Phe	Ala	Ala	Ser	Ile	Leu	Asn	Phe	Val	Val	Leu	Thr	Ala
305					310					315					320
Ser	Leu	Ser	Ala	Ile	Asn	Ser	Asp	Val	Phe	Gly	Val	Gly	Arg	Met	Leu
				325					330					335	
His	Gly	Met	Ala	Glu	Gln	Gly	Ser	Ala	Pro	Lys	Val	Phe	Ala	Lys	Thr
			340					345					350		

Ser Arg Arg Gly Thr Pro Trp Val Thr Val Leu Val Met Thr Val Ala
 355 360 365
 Leu Leu Phe Ser Val Tyr Leu Asn Tyr Ile Met Pro Glu Asn Val Phe
 370 375 380
 Leu Val Ile Ala Ser Leu Ala Thr Phe Ala Thr Val Trp Val Trp Ile
 385 390 395 400
 Met Ile Leu Leu Ser Gln Ile Ala Phe Arg Arg Arg Leu Ser Pro Glu
 405 410 415
 Glu Ala Lys Ala Leu Lys Phe Lys Val Pro Gly Gly Val Pro Thr Thr
 420 425 430
 Ile Val Gly Leu Ile Phe Leu Val Phe Ile Ile Gly Leu Ile Gly Tyr
 435 440 445
 His Pro Asp Thr Arg Ile Ser Leu Tyr Val Gly Phe Ala Trp Ile Val
 450 455 460
 Leu Leu Leu Val Gly Trp Met Phe Lys Cys Arg Arg Asp Arg Gln Leu
 465 470 475 480
 Ala Glu Ala Gln
 485

<210> 8774

<211> 615

<212> PRT

<213> Enterobacter cloacae

<400> 8774

Arg Gln Phe His Gln Arg Gly Phe Val Met Leu Asn Ala Trp His Leu
 1 5 10 15
 Pro Val Ala Pro Phe Val Asn Gln Asn Lys Asp Asn Leu Val Ile Thr
 20 25 30
 Leu Trp Leu Ala Gly Asp Asn Gln Pro Glu Arg Val Thr Leu Arg Ala
 35 40 45
 Glu Val Asp Asn Glu Glu Thr Ser Leu Lys Met His Lys Val Arg Ser
 50 55 60
 Gln Pro Gln Pro Gly Val Thr Ala Trp Arg Ala Asn Ile Asp Leu Arg
 65 70 75 80
 Ser Gly Gln Pro Arg Arg Arg Tyr Gly Phe Lys Leu Leu Trp Asn Asn
 85 90 95
 Arg Gln Leu Trp Phe Thr Pro Gln Gly Phe Ser Arg Phe Pro Pro Ala
 100 105 110
 Arg Leu Glu Gln Phe Ala Val Asp His Pro Asp Asn Gly Pro Gln Trp
 115 120 125
 Val Asn Asp Gln Val Phe Tyr Gln Ile Phe Pro Asp Arg Phe Ala Arg
 130 135 140
 Ser Glu Lys Arg Thr Val Asp Gln Asp Lys Val Tyr Tyr His His Ala
 145 150 155 160
 Val Gly His Asp Ile Ile Leu Lys Lys Trp Asp Glu Pro Leu Thr Ala
 165 170 175
 Gln Ala Gly Gly Ser Thr Phe Tyr Gly Gly Asp Leu Asp Gly Ile Ser
 180 185 190
 Glu Lys Leu Pro Tyr Leu Lys Lys Leu Gly Val Thr Ala Leu Tyr Leu
 195 200 205
 Asn Pro Val Phe Lys Ala Pro Ser Val His Lys Tyr Asp Thr Gln Asp
 210 215 220
 Tyr Arg His Val Asp Glu Gln Phe Gly Gly Asp Glu Ala Leu Leu Arg
 225 230 235 240
 Leu Arg His Asn Thr Gln Lys Glu Gly Met Arg Leu Ile Leu Asp Gly
 245 250 255
 Val Phe Asn His Ser Gly Asp Ser His Ala Trp Phe Asp Arg His Asn
 260 265 270
 Gln Ser Met Gly Gly Ala Cys His Asn Pro Asp Ser Pro Gln Arg Asp
 275 280 285

Trp Tyr Ser Phe Asp Glu Asn Gly Arg Ala Leu Asp Trp Leu Gly Tyr
 290 295 300
 Pro Ser Leu Pro Lys Leu Asp Phe Gln Ser Pro Ser Leu Val Asn Glu
 305 310 315 320
 Ile Tyr Gly Gly Asp Ser Ile Val Arg His Trp Leu Lys Ala Pro
 325 330 335
 Trp Asn Met Asp Gly Trp Arg Leu Asp Val Val His Met Leu Gly Glu
 340 345 350
 Ala Gly Gly Ala Arg Asn Asn Leu Gln His Val Ala Ala Ile Thr Arg
 355 360 365
 Ser Ala Lys Ala Ala Arg Ser Glu Ala Phe Val Phe Gly Glu His Phe
 370 375 380
 Gly Asp Ala Arg Gln Trp Leu Gln Ala Asp Ala Glu Asp Ala Ala Met
 385 390 395 400
 Asn Tyr Arg Gly Phe Thr Phe Pro Leu Trp Gly Phe Leu Ala Asn Thr
 405 410 415
 Asp Ile Ser Tyr Asp Pro Gln His Ile Asp Ala Glu Thr Cys Met Ala
 420 425 430
 Trp Met Glu Asn Tyr Arg Ala Gly Leu Ser His Gln Gln Gln Leu Arg
 435 440 445
 Met Phe Asn Gln Leu Asp Ser His Asp Thr Ala Arg Phe Lys Ser Leu
 450 455 460
 Leu Gly Lys Asp Val Ala Arg Leu Pro Leu Ala Val Thr Trp Leu Phe
 465 470 475 480
 Thr Trp Pro Gly Val Pro Cys Ile Tyr Tyr Gly Asp Glu Val Gly Leu
 485 490 495
 Asp Gly Asn Asn Asp Pro Phe Cys Arg Lys Thr Phe Pro Trp Glu Pro
 500 505 510
 Glu Lys Gln Asp Gln Asp Leu Phe Ser Leu Tyr Gln Arg Met Ala Thr
 515 520 525
 Leu Arg Lys Gln Ser Gln Ala Leu Arg Tyr Gly Gly Cys Gln Val Met
 530 535 540
 Tyr Ala His Asp Asn Val Val Val Phe Val Arg Val Tyr Asn Gln Gln
 545 550 555 560
 Arg Val Leu Val Ala Ile Asn Arg Gly Glu Ala Cys Glu Val Val Leu
 565 570 575
 Glu Asp Ser Pro Leu Leu Ala Gly Lys Met Trp Lys Ser Lys Glu Gly
 580 585 590
 Lys Ala Thr Phe Gln Gly Ser Val Leu Thr Leu Pro Ala Ile Ser Ala
 595 600 605
 Ala Val Trp Phe Gly Ser
 610 615

<210> 8775

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 8775

Arg Asp Gly Val Ala Gly Ala Gly Ala Arg Gln Arg Asp Met Gly Ala
 1 5 10 15
 Asn Gly Arg Arg His Phe Ala Glu Pro Pro Ala Tyr Phe Arg Ser Ala
 20 25 30
 Gln Ser Leu Leu Ala Gly Cys Gly Leu Ala Val Ala Glu Asn Arg Ala
 35 40 45
 Ala Gly Gln Leu Gly Ile Ala Gly Arg Trp Val Ala Val Leu Val Ser
 50 55 60
 Gly Val Ala Gly Arg Val Ala Val Val Pro Glu Ala Gly Val Ile Ala
 65 70 75 80
 Ser Gly Arg Arg Ala Gly Ala Asp Gly Gly Val Asp Leu Gly Met Ala
 85 90 95

Ala	Gly	Cys	Arg	Ser	Ser	Gly	Met	Val	Gly	Ala	Gly	Cys	Gln	Gln	Met
			100					105					110		
Ala	Ala	Val	Ala	Gly	Asp	Ala	Ala	Asp	Gly	Ala	Val	Ser	Gly	Leu	Ala
		115					120						125		
Pro	Ala	Asp	Ser	Gly	Gly	Arg	Leu	Gly	Lys	Ser	Gly	Leu	Gly	Tyr	Arg
	130					135					140				
Ala	Ala	Cys	Arg	Pro	Asp	Ala	Ala	Ala	Ala	Arg	Arg	Arg			
145					150					155					

<210> 8776

<211> 369

<212> PRT

<213> Enterobacter cloacae

<400> 8776

Thr	Met	Pro	Pro	Val	Phe	Lys	Ser	Arg	Val	Tyr	Val	Met	Arg	Val	Ala
1				5					10					15	
Asp	Phe	Ser	Phe	Glu	Leu	Pro	Glu	Ser	Leu	Ile	Ala	His	Tyr	Pro	Met
			20					25					30		
Pro	Glu	Arg	Ser	Ser	Cys	Arg	Leu	Leu	Ser	Leu	Asp	Gly	Pro	Thr	Gly
		35					40					45			
Ala	Leu	Thr	His	Gly	Thr	Phe	Thr	Asp	Leu	Leu	Asp	Lys	Leu	Asn	Pro
	50					55					60				
Gly	Asp	Leu	Leu	Val	Phe	Asn	Asn	Thr	Arg	Val	Ile	Pro	Ala	Arg	Leu
65					70					75					80
Phe	Gly	Arg	Lys	Ala	Ser	Gly	Gly	Lys	Ile	Glu	Val	Leu	Val	Glu	Arg
			85					90						95	
Met	Leu	Asp	Asp	Lys	Arg	Ile	Leu	Ala	His	Ile	Arg	Ala	Ser	Lys	Ala
			100					105						110	
Pro	Lys	Pro	Gly	Ala	Glu	Leu	Leu	Gly	Asp	Asp	Glu	Ser	Ile	Lys	
		115					120					125			
Ala	Thr	Met	Thr	Ala	Arg	His	Asp	Ala	Leu	Phe	Glu	Val	Glu	Phe	Asn
	130					135					140				
Asp	Glu	Arg	Thr	Val	Leu	Asp	Ile	Leu	Asn	Ala	Ile	Gly	His	Met	Pro
145					150					155					160
Leu	Pro	Pro	Tyr	Ile	Glu	Arg	Pro	Asp	Glu	Glu	Ala	Asp	Arg	Glu	Leu
			165					170						175	
Tyr	Gln	Thr	Val	Tyr	Ser	Gln	Lys	Pro	Gly	Ala	Val	Ala	Ala	Pro	Thr
			180					185						190	
Ala	Gly	Leu	His	Phe	Asp	Glu	Pro	Leu	Leu	Glu	Lys	Leu	Arg	Ala	Lys
		195					200					205			
Gly	Ile	Glu	Met	Ala	Phe	Val	Thr	Leu	His	Val	Gly	Ala	Gly	Thr	Phe
	210					215					220				
Gln	Pro	Val	Arg	Val	Asp	Ser	Ile	Glu	Asp	His	Ile	Met	His	Ser	Glu
225					230					235					240
Tyr	Ala	Glu	Val	Pro	Gln	Glu	Val	Val	Asp	Ala	Val	Leu	Ala	Ala	Lys
				245					250					255	
Ala	Arg	Gly	Ser	Arg	Val	Val	Ala	Val	Gly	Thr	Thr	Ser	Val	Arg	Ser
			260					265						270	
Leu	Glu	Ser	Ala	Ala	Gln	Ala	Ala	Lys	Ser	Glu	Leu	Ile	Glu	Pro	Phe
		275					280					285			
Phe	Gly	Asp	Thr	Gln	Ile	Phe	Ile	Tyr	Pro	Gly	Tyr	Gln	Tyr	Lys	Val
	290					295				300					
Ile	Asp	Ala	Leu	Val	Thr	Asn	Phe	His	Leu	Pro	Glu	Ser	Thr	Leu	Ile
305					310					315					320
Met	Leu	Val	Ser	Ala	Phe	Ala	Gly	Tyr	Gln	His	Thr	Met	Asn	Ala	Tyr
				325					330					335	
Lys	Ser	Ala	Val	Glu	Gln	Lys	Tyr	Arg	Phe	Phe	Ser	Tyr	Gly	Asp	Ala
		340						345					350		
Met	Phe	Ile	Thr	Tyr	Asn	Pro	Gln	Ala	Leu	Asn	Glu	Arg	Val	Gly	Glu
		355					360					365			

<210> 8777
 <211> 111
 <212> PRT
 <213> Enterobacter cloacae

<400> 8777

Met	Ser	Phe	Phe	Ile	Ser	Asp	Ala	Val	Ala	Ala	Thr	Gly	Ala	Pro	Ala
1			5						10					15	
Gln	Gly	Ser	Pro	Met	Ser	Leu	Ile	Leu	Met	Leu	Val	Val	Phe	Gly	Leu
			20					25					30		
Ile	Phe	Tyr	Phe	Met	Ile	Leu	Arg	Pro	Gln	Gln	Lys	Arg	Thr	Lys	Glu
		35					40					45			
His	Lys	Asn	Leu	Met	Asn	Ser	Ile	Ala	Lys	Gly	Asp	Glu	Val	Leu	Thr
	50					55					60				
Asn	Gly	Gly	Leu	Val	Gly	Arg	Val	Thr	Lys	Val	Ala	Glu	Asn	Gly	Tyr
65					70					75					80
Ile	Ala	Ile	Ala	Leu	Asn	Asp	Thr	Thr	Glu	Val	Val	Ile	Lys	Arg	Asp
				85					90					95	
Phe	Val	Ala	Ala	Val	Leu	Pro	Lys	Gly	Thr	Met	Lys	Ala	Leu		
			100					105					110		

<210> 8778
 <211> 625
 <212> PRT
 <213> Enterobacter cloacae

<400> 8778

Ser	Gln	Leu	Phe	Pro	Lys	Gly	Thr	Ala	Val	Leu	Asn	Arg	Tyr	Pro	Leu
1			5						10					15	
Trp	Lys	Tyr	Ile	Met	Leu	Val	Val	Val	Ile	Ile	Val	Gly	Leu	Leu	Tyr
			20					25					30		
Ala	Leu	Pro	Asn	Leu	Tyr	Gly	Glu	Asp	Pro	Ala	Val	Gln	Ile	Thr	Gly
		35					40					45			
Ala	Arg	Gly	Val	Ala	Ala	Ser	Glu	Gln	Thr	Leu	Ile	Gln	Val	Gln	Lys
	50					55					60				
Thr	Leu	Gln	Glu	Glu	Lys	Ile	Thr	Ala	Lys	Ser	Val	Ala	Leu	Glu	Glu
65					70					75					80
Gly	Ala	Ile	Leu	Ala	Arg	Phe	Asp	Thr	Thr	Asp	Thr	Gln	Leu	Arg	Ala
				85				90						95	
Arg	Glu	Ala	Leu	Met	Gly	Val	Leu	Gly	Asp	Lys	Tyr	Val	Val	Ala	Leu
			100					105						110	
Asn	Leu	Ala	Pro	Ala	Thr	Pro	Arg	Trp	Leu	Ala	Ala	Leu	Asn	Ala	Glu
	115						120					125			
Pro	Met	Lys	Leu	Gly	Leu	Asp	Leu	Arg	Gly	Gly	Val	His	Phe	Leu	Met
	130					135					140				
Glu	Val	Asp	Met	Asp	Thr	Ala	Leu	Gly	Lys	Leu	Gln	Glu	Gln	Asn	Ile
145					150					155					160
Asp	Ser	Leu	Arg	Ser	Asp	Leu	Arg	Asp	Lys	Gly	Ile	Pro	Tyr	Thr	Thr
			165						170					175	
Val	Arg	Lys	Glu	Asp	Asn	Tyr	Gly	Met	Ser	Ile	Thr	Phe	Arg	Asp	Ser
			180					185					190		
Ala	Ala	Arg	Asp	Gln	Ala	Val	Thr	Tyr	Leu	Ser	Gln	Arg	His	Arg	Asp
		195					200					205			
Leu	Val	Ile	Thr	Ser	Gln	Gly	Ser	Asn	Gln	Leu	Arg	Ala	Val	Met	Thr
	210					215					220				
Asp	Ala	Arg	Leu	Ser	Glu	Ala	Arg	Glu	Tyr	Ala	Val	Gln	Gln	Asn	Ile
225					230					235					240
Asn	Ile	Leu	Arg	Asn	Arg	Val	Asn	Gln	Leu	Gly	Val	Ala	Glu	Pro	Leu

jc530 U.S. PTO
09/252691
02/18/99

625

<211> 128

<212> PRT

<213> Enterobacter cloacae

Gln Gln Ala Gly Gly Arg Met Lys Ser Val Ile Asn Trp Phe Glu Ile
1 5 10 15

Pro Val Ala Asp Met Asp Arg Ala Ile Lys Phe Tyr Glu Ser Val Met
20 25 30

Gln Val Ala Leu Arg Arg Glu Lys Met Asp Val Ala Glu Leu Ala Val

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<210> 8780
<211> 157
<212> PRT
<213> Enterobacter cloacae
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<210> 8781
<211> 223
<212> PRT
<213> Enterobacter cloacae
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<400> 8781																
Pro	Thr	Ser	Gly	Arg	Phe	Cys	Gly	Thr	Val	Trp	Leu	Pro	Gln	Ala	Cys	
1				5					10					15		
His	Ser	Val	Pro	Leu	Cys	Ser	Lys	Val	Ser	Ala	Thr	Ser	Thr	Ala	Ile	
			20					25					30			
Ile	Ser	Leu	Gln	Pro	Ser	Val	Ile	Arg	Gln	Gln	Gly	Glu	His	Leu	Val	
		35					40					45				
Met	Asn	Pro	Pro	Ile	Phe	Leu	Val	Gly	Pro	Arg	Gly	Cys	Gly	Lys	Thr	
	50					55					60					
Thr	Val	Gly	Leu	Glu	Leu	Ala	Arg	Leu	Cys	Gln	Ser	Gln	Phe	Val	Asp	
65					70					75					80	
Thr	Asp	His	Trp	Leu	Gln	Glu	Asn	Ala	Gly	Lys	Thr	Ile	Ala	Asp	Ile	
				85					90					95		
Val	Glu	Asp	Glu	Gly	Trp	Glu	Ser	Phe	Arg	Ala	Arg	Glu	Thr	Ala	Thr	
			100					105					110			
Leu	Glu	Ala	Val	Thr	Ala	Pro	Ser	Thr	Val	Ile	Ala	Thr	Gly	Gly	Gly	
		115					120					125				

Ile	Ile	Leu	Ala	Ser	Tyr	Asn	Arg	Gln	Phe	Met	Arg	Glu	Lys	Gly	Val
130						135					140				
Val	Ile	Tyr	Leu	Cys	Ala	Pro	Val	Ser	Thr	Leu	Val	Gly	Arg	Leu	Glu
145						150				155					160
Ala	Phe	Pro	Glu	Glu	Gly	Gln	Arg	Pro	Ala	Leu	Thr	Ala	Lys	Pro	Leu
					165				170					175	
Ser	Glu	Glu	Val	Ser	Glu	Val	Leu	Ala	Glu	Arg	Asp	Ala	Leu	Tyr	Arg
			180					185					190		
Glu	Ala	Ala	His	His	Val	Val	Asp	Ala	Ser	Ala	Ser	Pro	Glu	Lys	Val
	195						200					205			
Ala	Ile	Gln	Ile	Ile	Thr	Ala	Leu	Arg	Leu	Ala	Cys	Ala	Ser		
	210						215				220				

<210> 8782

<211> 107

<212> PRT

<213> Enterobacter cloacae

<400> 8782

Trp	Ile	Phe	Leu	Tyr	Lys	Tyr	Lys	Gly	Gln	Phe	Met	Leu	Gln	Ser	Asn
1				5					10					15	
Glu	Tyr	Phe	Ser	Gly	Lys	Val	Lys	Ser	Ile	Gly	Phe	Thr	Ser	Ser	Ser
			20					25					30		
Thr	Gly	Arg	Ala	Ser	Val	Gly	Val	Met	Ala	Glu	Gly	Glu	Tyr	Thr	Phe
		35					40					45			
Gly	Thr	Ala	Glu	Ala	Glu	Glu	Met	Thr	Val	Val	Ser	Gly	Ala	Leu	Asn
	50					55					60				
Val	Leu	Leu	Pro	Gly	Glu	Thr	Glu	Trp	Lys	Val	Tyr	Ser	Ala	Gly	Gln
65				70					75						80
Val	Phe	Asn	Val	Pro	Gly	His	Ser	Glu	Phe	His	Leu	Gln	Val	Ala	Glu
				85					90					95	
Pro	Thr	Ser	Tyr	Leu	Cys	Arg	Tyr	Leu	Lys						
			100					105							

<210> 8783

<211> 342

<212> PRT

<213> Enterobacter cloacae

<400> 8783

Thr	Cys	Cys	Thr	Ala	Ala	Ser	Ala	Ser	Lys	Ser	Cys	Leu	Ser	Glu	Glu
1				5					10					15	
Cys	Val	Val	Ala	Gln	Glu	Tyr	Thr	Val	Glu	Gln	Leu	Asn	His	Gly	Arg
			20					25					30		
Lys	Val	Trp	Asp	Phe	Met	Arg	Trp	Asp	Tyr	Trp	Ala	Phe	Gly	Ile	Ser
		35					40					45			
Gly	Phe	Leu	Leu	Ile	Leu	Ser	Ile	Val	Ile	Met	Gly	Val	Lys	Gly	Phe
	50					55					60				
Asn	Trp	Gly	Leu	Asp	Phe	Thr	Gly	Gly	Thr	Val	Ile	Glu	Ile	Thr	Leu
65				70					75						80
Glu	Lys	Pro	Val	Asp	Met	Asp	Gln	Met	Arg	Glu	Ser	Leu	Gln	Lys	Ala
				85					90					95	
Gly	Phe	Glu	Glu	Pro	Leu	Leu	Gln	Asn	Phe	Gly	Ser	Ser	Arg	Asp	Ile
			100					105					110		
Met	Val	Arg	Met	Pro	Pro	Val	His	Asp	Ala	Asn	Gly	Ser	Gln	Glu	Leu
		115					120					125			
Gly	Ser	Lys	Val	Val	Gln	Val	Ile	Asn	Glu	Thr	Thr	Ser	Gln	Asp	Ala
	130					135					140				
Thr	Val	Lys	Arg	Ile	Glu	Phe	Val	Gly	Pro	Ser	Val	Gly	Ala	Asp	Leu
145					150					155					160
Ala	Gln	Thr	Gly	Ala	Met	Ala	Leu	Leu	Val	Ala	Leu	Ile	Ser	Ile	Leu

245

<210> 8785
 <211> 197
 <212> PRT
 <213> Enterobacter cloacae

<400> 8785

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Arg Tyr Pro Gly Leu Met Ile Ser Leu Phe Val Thr Thr Met Val Ile
1      5      10      15
Gln Leu Cys Asn Gly Ser Val Gly Pro Ile Leu Ala Leu Phe Ile Lys
20      25      30
Ser Met Ala Pro Asp Ser Ser Asn Ile Ala Phe Leu Ser Gly Met Ile
35      40      45
Ala Ala Val Pro Gly Val Ser Ala Leu Met Ser Ala Pro Arg Leu Gly
50      55      60
Lys Leu Gly Asp Arg Ile Gly Thr Ala Arg Ile Leu Met Ala Thr Leu
65      70      75      80
Ile Ile Ala Val Ile Leu Phe Phe Ala Met Ser Phe Val Thr Thr Pro
85      90      95
Leu Gln Leu Gly Ile Leu Arg Phe Leu Leu Gly Phe Ala Asp Gly Ala
100     105     110
Met Leu Pro Ala Val Gln Thr Leu Leu Val Lys Tyr Ser Ser Asp Gln
115     120     125
Val Thr Gly Arg Ile Phe Gly Tyr Asn Gln Ser Phe Met Tyr Leu Gly
130     135     140
Asn Val Ala Gly Pro Leu Ile Gly Ala Ser Val Ser Ala Met Ala Gly
145     150     155     160
Phe Arg Trp Val Phe Ala Ala Thr Ala Val Val Leu Leu Asn Ile
165     170     175
Ile Gln Leu Ala Phe Ala Leu Arg Arg Arg Arg Ile Ala Glu Ala
180     185     190
Lys Ser Ala Arg
195

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<210> 8786
 <211> 121
 <212> PRT
 <213> Enterobacter cloacae

<400> 8786

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Arg Thr Arg Leu Asn Val Glu Leu His Ile Lys Asp Gly Ala Met Lys
1      5      10      15
Thr Thr Ile Leu Ile Thr Leu Leu Ser Gly Leu Cys Leu Met Ala Ser
20      25      30
Ala His Ala Glu Glu Lys Thr Leu Thr Pro Gln Gln Gln Arg Met Thr
35      40      45
Thr Cys Asn Gln Gln Ala Thr Ser Gln Ser Leu Lys Gly Asp Ala Arg
50      55      60
Lys Thr Tyr Met Ser Asp Cys Leu Lys Asn Gly Ala Thr Lys Pro Gly
65      70      75      80
Glu Lys Ser Leu Thr Pro Gln Gln Gln Lys Met Arg Glu Cys Asn Ala
85      90      95
Gln Ala Thr Gln Gln Met Leu Lys Gly Asp Asp Arg Ser Lys Phe Met
100     105     110
Ser Ala Cys Leu Lys Lys Gln Ala
115     120

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<210> 8787
 <211> 400
 <212> PRT

<213> Enterobacter cloacae

<400> 8787

Arg Val Ser His Gly Cys Gly Ser Pro Lys Ile Ser Tyr Phe Pro Arg
 1 5 10 15
 Tyr Pro Pro Leu Tyr Asn Leu Gly Lys Cys Phe Arg Ile Phe Pro Lys
 20 25 30
 Met Met Asn Asp Glu Phe Tyr Asp Ser His Gly Asn Ile Arg Glu Ala
 35 40 45
 Trp His Gln Gln Leu Ser Gln Asp Asp Ser Tyr Arg Ser Gly Leu Arg
 50 55 60
 Phe Ala Arg Arg Ile Arg Leu Ala Arg Ile Val Gly Leu Ala Ala Leu
 65 70 75 80
 Phe Val Pro Leu Ala Ser Val Leu Val Ser Gln Phe Leu Ser Gly Val
 85 90 95
 Trp Trp Leu Leu Leu Val Gly Trp Val Phe Val Trp Pro His Leu Ala
 100 105 110
 Trp Gln Leu Ala Phe Arg Ser Ala Glu Pro His Arg Ser Glu Ile Val
 115 120 125
 Asn Leu Lys Ile Asp Ala Ile Leu Ala Gly Val Trp Met Gly Leu Thr
 130 135 140
 Gly Phe Asn Ala Leu Pro Thr Ala Ala Leu Ile Met Met Ile Gly Met
 145 150 155 160
 Asn Met Met Gly Ser Gly Gly Cys Arg Leu Phe Leu Thr Gly Leu Ala
 165 170 175
 Leu Leu Ala Leu Ser Ala Leu Leu Thr Val Gln Ser Thr Gly Thr Pro
 180 185 190
 Val Leu Leu Thr Ser Glu Pro Leu Ala Leu Trp Leu Thr Leu Pro Val
 195 200 205
 Leu Val Val Tyr Pro Met Leu Phe Ala Trp Leu Ser His Arg Thr Ala
 210 215 220
 Ile Arg Leu Ala Glu His Lys Arg Arg Leu Glu Leu Met Ser Thr Arg
 225 230 235 240
 Asp Gly Met Thr Gly Val Phe Asn Arg Arg His Trp Glu Thr Leu Leu
 245 250 255
 Arg Tyr Glu Phe Glu Ala Cys Arg Arg Ser His Arg His Ala Thr Ile
 260 265 270
 Leu Leu Ile Asp Ile Asp His Phe Lys Thr Ile Asn Asp Thr Trp Gly
 275 280 285
 His Asp Val Gly Asp Glu Ala Ile Val Ala Ile Thr Arg Gln Leu Gln
 290 295 300
 Leu Thr Leu Arg Ser Gly Asp Tyr Ile Gly Arg Phe Gly Gly Asp Glu
 305 310 315 320
 Phe Ala Val Ile Met Ser Gly Thr Pro Ala Asp Ser Ala Ile Ala Ala
 325 330 335
 Met Ser Arg Val His Glu Arg Leu Val Asn Met Pro Leu His Gly Ala
 340 345 350
 Pro Thr Ala Arg Leu Cys Ile Ser Val Gly Val Ala Pro Trp Gly Ala
 355 360 365
 Gln Phe Thr His Tyr Arg Glu Trp Leu Lys Ala Ala Asp Val Ala Leu
 370 375 380
 Tyr Lys Ala Lys Asn Ala Gly Arg Gly Arg Thr Glu Val Ala Ala
 385 390 395 400

<210> 8788

<211> 231

<212> PRT

<213> Enterobacter cloacae

<400> 8788

Arg Lys Ala Ile Lys Met Lys Ala Thr Leu Ala Ile Leu Thr Ile Gly

1				5					10					15	
Val	Val	Pro	Val	Ser	Glu	Val	Leu	Pro	Leu	Leu	Thr	Glu	His	Val	Ser
			20					25					30		
Glu	Gln	Gln	Ile	Thr	His	Leu	Ser	Leu	Leu	Gly	Lys	Leu	Ser	Arg	Glu
		35					40					45			
Glu	Val	Met	Glu	Asp	Tyr	Ala	Val	Gly	Glu	Gly	Glu	Asp	Pro	Leu	Ala
	50					55					60				
Thr	Leu	Leu	Ser	Asp	Gly	Lys	Leu	Ala	His	Val	Ser	Arg	Gln	Lys	Ile
65					70					75				80	
Glu	Arg	Ala	Leu	Gln	Gly	Val	Ile	Glu	Val	Leu	Asp	Asn	Gln	Asp	Tyr
				85					90				95		
Asp	Val	Ile	Leu	Leu	Met	Ser	Thr	Ala	Pro	Val	Lys	Gly	Leu	Ser	Ala
			100					105					110		
Arg	Asn	Ala	Ile	Leu	Leu	Glu	Pro	Met	Arg	Ile	Ile	Pro	Pro	Leu	Val
		115					120					125			
Ala	Ser	Ile	Val	Asp	Gly	His	Gln	Val	Gly	Val	Ile	Val	Pro	Val	Glu
	130					135						140			
Glu	Leu	Leu	Asp	Asn	Gln	Thr	Val	Lys	Trp	Ala	Ala	Leu	Glu	His	Thr
145					150					155				160	
Pro	Leu	Tyr	Ala	Leu	Ala	Asn	Pro	Phe	Trp	Asp	Ser	Glu	Ala	Lys	Leu
				165					170					175	
Ile	Ala	Ala	Gly	Gln	Glu	Leu	Ile	Asp	Arg	Gly	Ala	Asp	Val	Leu	Met
			180					185					190		
Leu	Asp	Cys	Leu	Gly	Phe	His	Gln	Arg	His	Arg	Asp	Leu	Leu	Gln	Lys
		195					200					205			
Ala	Leu	Asp	Val	Pro	Val	Leu	Leu	Ser	Asn	Val	Leu	Met	Ala	Arg	Leu
	210					215					220				
Ala	Ser	Glu	Leu	Leu	Val										
225					230										

<210> 8789

<211> 399

<212> PRT

<213> Enterobacter cloacae

<400> 8789

Ala	Cys	Arg	Gly	Ile	Ser	Pro	Arg	His	Cys	Val	Thr	Thr	Leu	Asp	Cys
1				5					10					15	
Phe	Ser	Asp	Val	Gly	Glu	Lys	Met	Lys	Phe	Glu	Leu	Asp	Thr	Thr	Asp
			20					25					30		
Gly	Arg	Ala	Arg	Arg	Gly	Arg	Leu	Val	Phe	Asp	Arg	Gly	Val	Val	Glu
		35					40					45			
Thr	Pro	Ala	Phe	Met	Pro	Val	Gly	Thr	Tyr	Gly	Thr	Val	Lys	Gly	Met
	50					55					60				
Thr	Pro	Glu	Glu	Val	Glu	Ala	Thr	Gly	Ala	Gln	Ile	Ile	Leu	Gly	Asn
65					70					75				80	
Thr	Phe	His	Leu	Trp	Leu	Arg	Pro	Gly	Gln	Glu	Ile	Met	Lys	Leu	His
				85					90				95		
Gly	Asp	Leu	His	Asp	Phe	Met	Gln	Trp	Lys	Gly	Pro	Ile	Leu	Thr	Asp
		100					105						110		
Ser	Gly	Gly	Phe	Gln	Val	Phe	Ser	Leu	Gly	Asp	Ile	Arg	Lys	Ile	Thr
		115					120					125			
Glu	Gln	Gly	Val	His	Phe	Arg	Asn	Pro	Ile	Asn	Gly	Asp	Pro	Ile	Phe
	130					135					140				
Leu	Asp	Pro	Glu	Lys	Ser	Met	Glu	Ile	Gln	Tyr	Asp	Leu	Gly	Ser	Asp
145					150					155				160	
Ile	Val	Met	Ile	Phe	Asp	Glu	Cys	Thr	Pro	Tyr	Pro	Ala	Asp	Trp	Asp
				165					170					175	
Tyr	Ala	Lys	Arg	Ser	Met	Glu	Met	Ser	Leu	Arg	Trp	Ala	Lys	Arg	Ser
			180					185					190		
Arg	Asp	Arg	Phe	Asp	Ser	Leu	Gln	Asn	Lys	Asn	Ala	Leu	Phe	Gly	Ile

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<210> 8790
<211> 473
<212> PRT
<213> Enterobacter cloacae
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<400> 8790															
Glu	Gln	Val	Ser	Leu	Ala	Met	Pro	His	Ser	Tyr	Asp	Tyr	Asp	Ala	Ile
1				5					10					15	
Val	Ile	Gly	Ser	Gly	Pro	Gly	Gly	Glu	Gly	Ala	Ala	Met	Gly	Leu	Val
			20					25					30		
Lys	Gln	Gly	Ala	Arg	Val	Ala	Val	Ile	Glu	Arg	Tyr	His	Asn	Val	Gly
		35					40					45			
Gly	Gly	Cys	Thr	His	Trp	Gly	Thr	Ile	Pro	Ser	Lys	Ala	Leu	Arg	His
	50					55					60				
Ala	Val	Ser	Arg	Ile	Ile	Glu	Phe	Asn	Gln	Asn	Pro	Leu	Tyr	Ser	Asp
65					70					75					80
His	Ser	Arg	Leu	Leu	Arg	Ser	Ser	Phe	Ala	Asp	Ile	Leu	Asn	His	Ala
				85					90					95	
Asp	Thr	Val	Ile	Asn	Gln	Gln	Thr	Arg	Met	Arg	Gln	Gly	Phe	Tyr	Glu
			100					105					110		
Arg	Asn	His	Cys	Glu	Ile	Leu	Gln	Gly	Asn	Ala	His	Phe	Val	Asp	Glu
		115					120					125			
His	Thr	Leu	Ala	Leu	Glu	Cys	His	Asp	Gly	Ser	Val	Glu	Thr	Leu	Thr
	130					135					140				
Ala	Glu	Lys	Phe	Val	Ile	Ala	Cys	Gly	Ser	Arg	Pro	Tyr	His	Pro	Ala
145					150					155					160
Asp	Val	Asp	Phe	Ser	His	Pro	Arg	Ile	Tyr	Asp	Ser	Asp	Ser	Ile	Leu
				165					170					175	
Ser	Leu	His	His	Glu	Pro	Arg	His	Val	Ile	Ile	Tyr	Gly	Ala	Gly	Val
			180					185					190		
Ile	Gly	Cys	Glu	Tyr	Ala	Ser	Ile	Phe	Arg	Gly	Met	Glu	Val	Lys	Val
		195					200					205			
Asp	Leu	Ile	Asn	Thr	Arg	Asp	Arg	Leu	Leu	Ala	Phe	Leu	Asp	Gln	Glu
	210					215					220				
Met	Ser	Asp	Ser	Leu	Ser	Tyr	His	Phe	Trp	Asn	Ser	Gly	Val	Val	Ile

225		230		235		240									
Arg	His	Asn	Glu	Glu	Tyr	Glu	Lys	Ile	Glu	Gly	Cys	Asp	Asp	Gly	Val
			245			250								255	
Ile	Met	His	Leu	Lys	Ser	Gly	Lys	Lys	Leu	Lys	Ala	Asp	Cys	Leu	Leu
			260				265						270		
Tyr	Ala	Asn	Gly	Arg	Thr	Gly	Asn	Thr	Asp	Ser	Leu	Gln	Leu	Glu	Asn
		275					280					285			
Ile	Gly	Leu	Glu	Thr	Asp	Ser	Arg	Gly	Gln	Leu	Lys	Val	Asn	Ser	Met
	290				295						300				
Tyr	Gln	Thr	Ala	Leu	Pro	His	Val	Tyr	Ala	Val	Gly	Asp	Val	Ile	Gly
305					310					315					320
Tyr	Pro	Ser	Leu	Ala	Ser	Ala	Ala	Tyr	Asp	Gln	Gly	Arg	Ile	Ala	Ala
			325						330					335	
Gln	Ala	Leu	Val	Lys	Gly	Glu	Ala	Thr	Ala	His	Leu	Ile	Glu	Asp	Ile
		340					345						350		
Pro	Thr	Gly	Ile	Tyr	Thr	Ile	Pro	Glu	Ile	Ser	Ser	Val	Gly	Lys	Thr
		355				360						365			
Glu	Gln	Gln	Leu	Thr	Ala	Met	Lys	Val	Pro	Tyr	Glu	Val	Gly	Arg	Ala
	370					375					380				
Gln	Phe	Lys	His	Leu	Ala	Arg	Ala	Gln	Ile	Val	Gly	Met	Ser	Val	Gly
385					390					395					400
Thr	Leu	Lys	Ile	Leu	Phe	His	Arg	Glu	Thr	Lys	Glu	Ile	Leu	Gly	Ile
			405					410						415	
His	Cys	Phe	Gly	Glu	Arg	Ala	Ala	Glu	Ile	Ile	His	Ile	Gly	Gln	Ala
		420					425						430		
Ile	Met	Glu	Gln	Lys	Gly	Gly	Gly	Asn	Thr	Ile	Glu	Tyr	Phe	Val	Asn
	435				440						445				
Thr	Thr	Phe	Asn	Tyr	Pro	Thr	Met	Ala	Glu	Ala	Tyr	Arg	Val	Ala	Ala
	450				455						460				
Leu	Asn	Gly	Leu	Asn	Arg	Leu	Phe								
465				470											

<210> 8791

<211> 388

<212> PRT

<213> Enterobacter cloacae

<400> 8791

Gly	Val	Ser	Thr	Met	Lys	Met	Asn	Leu	Pro	Pro	Phe	Ile	Glu	Ile	Tyr
1				5				10					15		
Arg	Ala	Leu	Ile	Ala	Thr	Pro	Ser	Ile	Ser	Ala	Thr	Glu	Glu	Ala	Leu
		20						25					30		
Asp	Gln	Ser	Asn	Glu	Ser	Leu	Ile	Asn	Leu	Leu	Ala	Gly	Trp	Phe	Ser
	35					40						45			
Asp	Leu	Gly	Phe	Asn	Val	Glu	Val	Gln	Pro	Val	Pro	Gly	Thr	Arg	His
	50				55					60					
Lys	Phe	Asn	Leu	Leu	Ala	Ser	Thr	Gly	His	Gly	Ala	Gly	Gly	Leu	Leu
65				70					75					80	
Leu	Ala	Gly	His	Thr	Asp	Thr	Val	Pro	Phe	Asp	Asp	Gly	Arg	Trp	Thr
			85				90						95		
Arg	Asp	Pro	Phe	Thr	Leu	Ser	Glu	His	Asp	Asn	Lys	Leu	Tyr	Gly	Leu
		100					105						110		
Gly	Thr	Ala	Asp	Met	Lys	Gly	Phe	Phe	Ala	Phe	Ile	Leu	Asp	Ala	Leu
		115				120					125				
Arg	Asp	Val	Asp	Val	Thr	Lys	Leu	Lys	Lys	Pro	Leu	Tyr	Ile	Leu	Ala
	130					135				140					
Thr	Ala	Asp	Glu	Glu	Thr	Ser	Met	Ala	Gly	Ala	Arg	Tyr	Phe	Ser	Glu
145				150					155						160
Asn	Thr	Ser	Ile	Arg	Pro	Asp	Cys	Ala	Ile	Ile	Gly	Glu	Pro	Thr	Ser
			165					170					175		
Leu	Gln	Pro	Ile	Arg	Ala	His	Lys	Gly	His	Ile	Ser	Thr	Ala	Val	Arg

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<210> 8792
<211> 841
<212> PRT
<213> Enterobacter cloacae
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Gly 1	Leu	Ile	Ser	Gly 5	Val	Cys	Met	Ala	Leu 10	Val	Val	Glu	Phe	Thr 15	Cys
Glu	Leu	Pro	Asn 20	Gly	Val	His	Ala	Arg 25	Pro	Ala	Ser	His	Val 30	Glu	Thr
Leu	Cys 35	Asn	Thr	Phe	Ile	Ser	Gln 40	Ile	Glu	Trp	His	Asn 45	Leu	Arg	Thr
Asp	Arg 50	Lys	Gly	Asn	Ala	Lys 55	Ser	Ala	Leu	Ala	Val 60	Ile	Gly	Thr	Asp
Thr 65	Leu	Ala	Gly	Asp	Ala 70	Cys	Arg	Leu	Val	Ile 75	Gln	Gly	Glu	Asp	Glu 80
Gln	Asn	Ala	Tyr 85	Gln	Gln	Leu	Glu	Gln 90	Trp	Leu	Arg	Glu	Glu 95	Phe	Pro
His	Cys	Asp	Ala 100	Pro	Leu	Ala	Glu	Ala 105	Ile	Asn	Asn	Glu	Arg 110	Asp	Pro
Leu	Pro	Glu 115	Ser	Leu	Ala	Arg	Leu 120	Asn	Pro	Thr	Leu	Phe 125	Arg	Ala	Leu
Pro	Val 130	Cys	Ser	Gly	Ser	Ala 135	Gln	Gly	Val	Leu	Thr 140	Leu	Leu	Ala	Ser
Leu 145	Asp	Leu	Asn	Ala	Leu 150	Ser	Asp	Leu	Ala	Glu 155	Ala	Lys	Asp	Glu	Glu 160
Asp	Glu	Gln	Leu 165	Ala	Leu	Asp	Asn	Gly 170	Leu	Thr	Leu	Leu	Val 175	Lys	Asn
Ile	Glu	Leu 180	Arg	Ala	Leu	Asp	Ser 185	Asp	Ser	Thr	Ala	Ser	Ala 190	Ile	Leu
Glu	Ala	His 195	Arg	Ser	Leu	Ala	Thr 200	Asp	Thr	Ser	Leu	Arg 205	Gln	His	Leu
Leu	Ser	Gly	Val	Asn	Arg	Gly	Leu	Ser	Cys	Ala	Gln	Ala	Ile	Ile	Ala

210	215	220
Thr Ala Asn His Phe Cys Glu Thr Phe Ser Arg Ser Ser Ser Thr Tyr		
225	230	235
Leu Gln Glu Arg Val Leu Asp Val Arg Asp Val Cys Tyr Gln Leu Leu		
	245	250
Gln His Ile Tyr Gly Glu Ala Arg Phe Pro Ser Pro Gly Gln Leu Thr		
	260	265
Gln Pro Ser Val Cys Leu Ala Asp Asp Leu Thr Pro Gly Gln Phe Leu		
	275	280
Glu Leu Asp Lys Thr Leu Leu Lys Gly Leu Leu Leu Lys Ser Gly Gly		
	290	295
Thr Thr Ser His Thr Val Ile Leu Ala Arg Ser Phe Asn Ile Pro Thr		
305	310	315
Leu Val Gly Val Asp Gly Glu Ser Leu Leu Gln Trp Arg Asn Gln Ser		
	325	330
Val Phe Ile Asp Gly Asn Ala Gly Ala Val Val Val Asp Ala Ser Asp		
	340	345
Ala Val Ala Arg Tyr Tyr Arg Gln Glu Ala Arg Val Gln Gln Ala Leu		
	355	360
Arg Glu Gln Gln Gly Ile Trp Leu Asp Arg Glu Ala Arg Thr Ala Asp		
	370	375
Gly Leu Arg Val Glu Ile Ala Ala Asn Ile Ala His Ala Val Glu Ala		
385	390	395
Gln Ala Ala Phe Glu Asn Gly Ala Glu Gly Val Gly Leu Phe Arg Thr		
	405	410
Glu Met Leu Tyr Met Asp Arg Ser Ser Ala Pro Gly Glu Asn Glu Leu		
	420	425
Tyr Asn Ile Phe Cys Gln Ala Leu Glu Ser Ala Asn Gly Arg Ser Ile		
	435	440
Ile Val Arg Thr Met Asp Ile Gly Gly Asp Lys Pro Val Glu Tyr Leu		
	450	455
Lys Ile Pro Ala Glu Asn Asn Pro Phe Leu Gly Tyr Arg Ala Val Arg		
465	470	475
Ile Tyr Glu Glu Tyr Ala Val Leu Phe Thr Thr Gln Leu Arg Ala Ile		
	485	490
Leu Arg Ala Ser Ala His Gly Ser Leu Lys Ile Met Ile Pro Met Ile		
	500	505
Ser Ser Met Glu Glu Ile Leu Trp Val Lys Glu Lys Leu Ala Glu Ala		
	515	520
Lys Gln Gln Leu Arg Ala Glu His Ile Pro Phe Asp Glu Lys Ile Pro		
	530	535
Leu Gly Ile Met Leu Glu Val Pro Ser Val Met Phe Ile Ile Asp Gln		
545	550	555
Cys Cys Glu Glu Ile Asp Phe Phe Ser Ile Gly Ser Asn Asp Leu Thr		
	565	570
Gln Tyr Leu Leu Ala Val Asp Arg Asp Asn Ala Lys Val Thr Arg His		
	580	585
Tyr Asn Ser Leu Asn Pro Ala Phe Leu Arg Ala Leu Asp Tyr Ala Val		
	595	600
Gln Ala Val His Arg Gln Gly Lys Trp Ile Gly Leu Cys Gly Glu Leu		
	610	615
Gly Ala Lys Gly Ser Val Leu Pro Leu Leu Val Gly Leu Gly Leu Asp		
625	630	635
Glu Leu Ser Met Gly Ser Pro Ala Ile Pro Ala Thr Lys Ala Arg Leu		
	645	650
Ala Gln Leu Asp Ser Arg Ala Cys Arg Gln Leu Leu Asn Gln Ala Met		
	660	665
Ala Cys Arg Thr Ser Leu Glu Val Glu His Leu Leu Ala Gln Phe Arg		
	675	680
Met Asn Gln Gln Asp Thr Pro Leu Val Thr Pro Arg Cys Ile Ser Leu		
	690	695
		700

Asp	Asn	Asp	Trp	Asn	Ser	Lys	Glu	Glu	Val	Met	Lys	Gly	Met	Thr	Asp
705					710					715					720
Asn	Leu	Leu	Leu	Ala	Gly	Arg	Cys	Arg	Tyr	Pro	Arg	Lys	Leu	Glu	Ala
				725					730						735
Asp	Leu	Trp	Ala	Arg	Glu	Ala	Val	Phe	Ser	Thr	Gly	Leu	Gly	Phe	Ser
			740					745					750		
Phe	Ala	Ile	Pro	His	Ser	Lys	Ser	Glu	His	Ile	Glu	Gln	Ser	Thr	Ile
		755					760					765			
Ser	Val	Ala	Arg	Leu	Lys	Ala	Pro	Val	Met	Trp	Gly	Asp	Glu	Glu	Ala
	770				775						780				
Gln	Phe	Ile	Ile	Met	Leu	Thr	Leu	Asn	Lys	His	Ala	Ala	Gly	Asp	Gln
785					790					795					800
His	Met	Arg	Ile	Phe	Ser	Arg	Leu	Ala	Arg	Arg	Ile	Met	His	Glu	Asp
				805					810					815	
Phe	Arg	Asn	Ala	Leu	Val	Asn	Ala	Ser	Ser	Gly	Glu	Ala	Ile	Ala	Ser
			820					825					830		
Leu	Leu	Gln	His	Glu	Leu	Glu	Leu								
		835					840								

<210> 8793

<211> 890

<212> PRT

<213> Enterobacter cloacae

<400> 8793

Trp	Gly	Asp	Trp	Val	Phe	Met	Asn	Glu	Gln	Tyr	Ser	Ala	Leu	Arg	Ser
1				5					10					15	
Asn	Val	Ser	Met	Leu	Gly	Lys	Val	Leu	Gly	Asp	Thr	Ile	Lys	Asp	Ala
		20						25					30		
Leu	Gly	Glu	Asn	Ile	Leu	Asp	Arg	Val	Glu	Thr	Ile	Arg	Lys	Leu	Ser
		35					40					45			
Lys	Ser	Ser	Arg	Ala	Gly	Asn	Glu	Ala	Asn	Arg	Gln	Glu	Leu	Leu	Thr
	50					55				60					
Thr	Leu	Gln	Asn	Leu	Ser	Asn	Asp	Glu	Leu	Leu	Pro	Val	Ala	Arg	Ala
65				70					75						80
Phe	Ser	Gln	Phe	Leu	Asn	Leu	Ala	Asn	Thr	Ala	Glu	Gln	Tyr	His	Ser
				85					90					95	
Ile	Ser	Pro	Lys	Gly	Glu	Ala	Ala	Ser	Asn	Pro	Glu	Val	Ile	Ala	Arg
		100						105					110		
Thr	Leu	Arg	Lys	Leu	Lys	Asp	Gln	Pro	Asp	Leu	Asn	Glu	Ala	Thr	Ile
		115					120					125			
Lys	Lys	Ala	Val	Glu	Ser	Leu	Ser	Leu	Glu	Leu	Val	Leu	Thr	Ala	His
	130					135					140				
Pro	Thr	Glu	Ile	Thr	Arg	Arg	Thr	Leu	Ile	His	Lys	Met	Val	Glu	Val
145					150					155					160
Asn	Asn	Cys	Leu	Lys	Gln	Leu	Asp	Asn	Lys	Asp	Ile	Ala	Asp	Tyr	Glu
			165						170					175	
Arg	Asn	Gln	Leu	Met	Arg	Arg	Leu	Arg	Gln	Leu	Ile	Ala	Gln	Ser	Trp
		180						185					190		
His	Thr	Asp	Glu	Ile	Arg	Lys	His	Arg	Pro	Ser	Pro	Val	Asp	Glu	Ala
		195					200					205			
Lys	Trp	Gly	Phe	Ala	Val	Val	Glu	Asn	Ser	Leu	Trp	Glu	Gly	Val	Pro
	210					215					220				
Asn	Tyr	Leu	Arg	Glu	Leu	Asn	Glu	Gln	Leu	Glu	Glu	Asn	Leu	Gly	Tyr
225					230					235					240
Arg	Leu	Pro	Val	Asp	Phe	Val	Pro	Val	Arg	Phe	Thr	Ser	Trp	Met	Gly
			245						250					255	
Gly	Asp	Arg	Asp	Gly	Asn	Pro	Asn	Val	Thr	Ala	Glu	Ile	Thr	Arg	His
			260					265					270		
Val	Leu	Leu	Leu	Ser	Arg	Trp	Lys	Ala	Thr	Asp	Leu	Phe	Leu	Lys	Asp
		275					280						285		

Ile	Gln	Val	Leu	Ile	Ser	Glu	Leu	Ser	Met	Val	Glu	Ala	Thr	Pro	Glu
290						295					300				
Leu	Arg	Ala	Leu	Ala	Gly	Glu	Glu	Gly	Ala	Ser	Glu	Pro	Tyr	Arg	Phe
305					310					315					320
Leu	Met	Lys	Lys	Leu	Arg	Gly	Gln	Leu	Met	Ala	Thr	Gln	Ala	Trp	Leu
				325					330					335	
Glu	Ala	Arg	Leu	Lys	Gly	Gln	Arg	Leu	Pro	Lys	Pro	Glu	Gly	Leu	Leu
			340					345					350		
Ser	Gln	Asn	Glu	Gln	Leu	Trp	Glu	Pro	Leu	Tyr	Ala	Cys	Tyr	Lys	Ser
		355					360					365			
Leu	Gln	Ala	Cys	Gly	Met	Gly	Ile	Ile	Ala	Asn	Gly	Glu	Leu	Leu	Asp
		370				375					380				
Thr	Leu	Arg	Arg	Val	Lys	Cys	Phe	Gly	Val	Pro	Leu	Val	Arg	Ile	Asp
385					390					395					400
Val	Arg	Gln	Glu	Ser	Thr	Arg	His	Thr	Glu	Ala	Leu	Gly	Glu	Leu	Thr
				405					410					415	
Arg	Tyr	Leu	Gly	Ile	Gly	Asp	Tyr	Glu	Ser	Trp	Ser	Glu	Ala	Asp	Lys
			420					425					430		
Gln	Ala	Phe	Leu	Ile	Arg	Glu	Leu	Asn	Ser	Lys	Arg	Pro	Leu	Leu	Pro
		435					440					445			
Arg	Asn	Trp	Glu	Pro	Ser	Asn	Asp	Thr	Arg	Glu	Val	Leu	Asn	Thr	Cys
		450				455					460				
Lys	Ala	Ile	Val	Asp	Ala	Pro	Lys	Gly	Ser	Val	Ala	Ala	Tyr	Val	Ile
465					470					475					480
Ser	Met	Ala	Lys	Thr	Pro	Ser	Asp	Val	Leu	Gly	Val	His	Leu	Leu	Leu
				485					490					495	
Lys	Glu	Ala	Gly	Ile	Asp	Tyr	Ala	Leu	Pro	Val	Ala	Pro	Leu	Phe	Glu
			500					505					510		
Thr	Leu	Asp	Asp	Leu	Asn	Asn	Ala	Asn	Asp	Val	Met	Thr	Gln	Leu	Leu
		515					520					525			
Asn	Ile	Asp	Trp	Tyr	Arg	Gly	Phe	Ile	Gln	Gly	Lys	Gln	Met	Val	Met
		530				535					540				
Ile	Gly	Tyr	Ser	Asp	Ser	Ala	Lys	Asp	Ala	Gly	Val	Met	Ala	Ala	Ser
545					550					555					560
Trp	Ala	Gln	Tyr	Gln	Ala	Gln	Asp	Ala	Leu	Ile	Lys	Thr	Cys	Glu	Lys
				565					570					575	
Ala	Gly	Ile	Glu	Leu	Thr	Leu	Phe	His	Gly	Arg	Gly	Gly	Ser	Ile	Gly
			580					585					590		
Arg	Gly	Gly	Ala	Pro	Ala	His	Ala	Ala	Leu	Leu	Ser	Gln	Pro	Pro	Gly
		595					600					605			
Ser	Leu	Lys	Gly	Gly	Leu	Arg	Val	Thr	Glu	Gln	Gly	Glu	Met	Ile	Arg
		610				615					620				
Phe	Lys	Tyr	Gly	Leu	Pro	Glu	Val	Thr	Ile	Ser	Ser	Leu	Ser	Leu	Tyr
625					630					635					640
Thr	Ser	Ala	Ile	Leu	Glu	Ala	Asn	Leu	Leu	Pro	Pro	Pro	Glu	Pro	Lys
				645					650					655	
Glu	Ser	Trp	Cys	Arg	Ile	Met	Asp	Glu	Leu	Ser	Asp	Ile	Ser	Cys	Asp
			660					665					670		
Leu	Tyr	Arg	Gly	Tyr	Val	Arg	Glu	Asn	Lys	Asp	Phe	Val	Pro	Tyr	Phe
		675					680					685			
Arg	Ser	Ala	Thr	Pro	Glu	Gln	Glu	Leu	Gly	Lys	Leu	Pro	Leu	Gly	Ser
		690				695					700				
Arg	Pro	Ala	Lys	Arg	Arg	Pro	Thr	Gly	Gly	Val	Glu	Ser	Leu	Arg	Ala
705					710					715					720
Ile	Pro	Trp	Ile	Phe	Ala	Trp	Thr	Gln	Asn	Arg	Leu	Met	Leu	Pro	Ala
				725					730					735	
Trp	Leu	Gly	Ala	Gly	Ala	Ala	Leu	Gln	Lys	Val	Val	Glu	Asp	Gly	Lys
			740					745					750		
Gln	Ser	Glu	Leu	Glu	Thr	Met	Cys	Arg	Asp	Trp	Pro	Phe	Phe	Ser	Thr
		755				760						765			
Arg	Leu	Gly	Met	Leu	Glu	Met	Val	Phe	Ser	Lys	Ala	Asp	Leu	Trp	Leu

770		775		780
Ala Glu Tyr Tyr Asp	Gln Arg Leu Val Lys	Pro Glu Leu Trp Ala Leu		
785	790	795		800
Gly Lys Glu Leu Arg	Glu Leu Leu Glu Gly	Asp Ile Lys Val Val Leu		
	805	810		815
Asp Ile Ala Asn Asp	Ser His Leu Met Glu	Asp Leu Pro Trp Ile Ala		
	820	825		830
Glu Ser Ile Gln Leu Arg	Asn Ile Tyr Thr Asp	Pro Leu Asn Val Leu		
	835	840		845
Gln Ala Glu Leu Leu His	Arg Ser Arg Leu Ala	Glu Glu Glu Gly Lys		
	850	855		860
Glu Pro Asp Pro Arg Val	Glu Gln Ala Leu Met	Val Thr Ile Ala Gly		
865	870	875		880
Val Ala Ala Gly Met	Arg Asn Thr Gly			
	885	890		

<210> 8794

<211> 304

<212> PRT

<213> Enterobacter cloacae

<400> 8794

Asn Arg Leu Phe Val	Gly Pro Ala Ser Thr	Ser Ala Ala Gly Gln Tyr		
1	5	10		15
Pro Gly Ile His Thr	Met His His Asp Ile	Thr Gln Ile Leu Thr Asn		
	20	25		30
Leu Ile Asn Gly Thr Thr	Pro Leu Arg Gln Val	His Phe Ala Asn Ser		
	35	40		45
Ala Thr Ser Ala Pro Glu	Leu Ala Leu Gln Val	Asp Phe Pro Arg Leu		
	50	55		60
Glu Ile Ala Ile Glu Gly	Ser Met Lys Asp Gln	Ala Gly Cys Val Leu		
65	70	75		80
Gln Gln Gly Asp Val	Leu Tyr Val Pro Ala	Gly Gly Trp Asn Asn Pro		
	85	90		95
Gln Trp Gln Ala Pro	Ala Thr Thr Leu Ser	Ile Leu Phe Gly Lys Gln		
	100	105		110
Gln Leu Gly Phe Ser	Leu Leu His Trp Asn	Gly Ile Asp Val Arg Asn		
	115	120		125
Leu Thr Lys Gln His	Val Ala Arg Arg Gly	Pro Arg Ile Gly Ser Leu		
	130	135		140
Leu Leu Gln Thr Leu	His Glu Met Gln Met	Gln Pro His Glu Gln Gln		
145	150	155		160
Thr Ala Arg Leu Ile	Ile Ala Ser Leu Leu	Ser His Cys Val Asp Leu		
	165	170		175
Leu Gly Ser Gln Ile	Gln Thr Ala Ser Arg	Ser Gln Ala Leu Phe Glu		
	180	185		190
Ala Ile Arg Val Tyr	Ile Asp Glu His Tyr	Ala Thr Pro Leu Thr Arg		
	195	200		205
Glu Ser Val Ala Gln	Ala Phe Tyr Ile Ser	Pro Asn Tyr Leu Ser His		
	210	215		220
Leu Phe Gln Lys Thr	Gly Ala Val Gly Phe	Asn Glu Tyr Leu Thr His		
225	230	235		240
Thr Arg Leu Glu His	Ala Arg Gln Leu Leu	Lys Gly Tyr Asp Leu Lys		
	245	250		255
Val Lys Glu Val Ala	His Ala Cys Gly Phe	Val Asp Ser Asn Tyr Phe		
	260	265		270
Cys Arg Leu Phe Arg	Lys Asn Thr Glu Arg	Ser Pro Ser Glu Tyr Arg		
	275	280		285
Arg Gln Tyr His Ser	Gln Leu Thr Gly Lys	Val Ile Ser Pro Glu		
	290	295		300

<210> 8795
 <211> 393
 <212> PRT
 <213> Enterobacter cloacae

<400> 8795
 Leu Leu Ala Ile Lys Ser Gly His Pro Leu His Asn Pro Tyr Asn Pro
 1 5 10 15
 Arg Val Ile Leu Tyr His Ser Gly Arg Ile Met Thr Pro Glu His Leu
 20 25 30
 Pro Thr Glu Gln Tyr Asp Ala Gln Leu Ala Glu Lys Val Arg Leu
 35 40 45
 Gln Ser Met Met Thr Pro Phe Asn Ala Pro Val Pro Glu Val Phe Arg
 50 55 60
 Ser Pro Val Ser His Tyr Arg Met Arg Ala Glu Phe Arg Ile Trp His
 65 70 75 80
 Asp Gly Asp Asp Leu Tyr His Ile Ile Phe Asp Gln Gln Thr Lys Ser
 85 90 95
 Arg Ile Arg Val Asp Ser Phe Pro Ala Ala Ser Glu Leu Ile Asn Gln
 100 105 110
 Leu Met Thr Leu Met Ile Asp Gly Val Arg Asn Asn Pro Val Leu Arg
 115 120 125
 Asn Lys Leu Phe Gln Ile Asp Tyr Leu Thr Thr Gln Ser Asn Gln Ala
 130 135 140
 Ile Val Ser Leu Leu Tyr His Lys Ala Leu Thr Asp Glu Trp Arg Glu
 145 150 155 160
 Gln Ala Glu Ala Leu Arg Asp Ala Leu Arg Ala Gln Asn Ile Asn Val
 165 170 175
 His Leu Ile Gly Arg Ala Thr Lys Thr Lys Ile Met Leu Asp Gln Asp
 180 185 190
 Tyr Ile Asp Glu Arg Leu Pro Val Ala Gly Lys Glu Met Val Tyr Arg
 195 200 205
 Gln Val Glu Asn Ser Phe Thr Gln Pro Asn Ala Ala Met Asn Val Gln
 210 215 220
 Met Leu Glu Trp Ala Leu Lys Ala Thr Glu Gly Ser Lys Gly Asp Leu
 225 230 235 240
 Leu Glu Leu Tyr Cys Gly Asn Gly Asn Phe Ser Leu Ala Leu Ala Arg
 245 250 255
 Asn Phe Glu Arg Val Leu Ala Thr Glu Ile Ala Lys Pro Ser Val Ala
 260 265 270
 Ala Ala Gln Tyr Asn Ile Ala Ala Asn His Ile Asp Asn Val Gln Ile
 275 280 285
 Ile Arg Met Ala Ala Glu Glu Phe Thr Gln Ala Met Asn Gly Val Arg
 290 295 300
 Glu Phe Asn Arg Leu Gln Gly Ile Asp Leu Lys Ser Tyr Gln Cys Glu
 305 310 315 320
 Thr Ile Phe Val Asp Pro Pro Arg Ser Gly Leu Asp Ser Glu Thr Glu
 325 330 335
 Lys Met Val Gln Ala Tyr Pro Arg Ile Leu Tyr Ile Ser Cys Asn Pro
 340 345 350
 Glu Thr Leu Cys Lys Asn Leu Glu Thr Leu Ser Gln Thr His Lys Val
 355 360 365
 Glu Arg Leu Ala Leu Phe Asp Gln Phe Pro Tyr Thr His His Met Glu
 370 375 380
 Cys Gly Val Leu Leu Thr Ala Arg
 385 390

<210> 8796
 <211> 244
 <212> PRT
 <213> Enterobacter cloacae

<400> 8796

Arg	Gln	Leu	Arg	Gly	Gly	Asp	Cys	Phe	Pro	Ala	Thr	Thr	Arg	Ile	Arg
1				5					10					15	
Thr	Val	Lys	Arg	Gly	Arg	Val	Met	Glu	Leu	Tyr	Leu	Asp	Thr	Ala	Asn
			20					25					30		
Val	Ala	Glu	Val	Glu	Arg	Leu	Ala	Arg	Ile	Phe	Pro	Ile	Ala	Gly	Val
		35					40					45			
Thr	Thr	Asn	Pro	Ser	Ile	Ile	Ala	Ala	Ser	Arg	Glu	Ser	Ile	Trp	Asp
	50					55					60				
Val	Leu	Pro	Arg	Leu	Gln	Lys	Ala	Ile	Gly	Pro	Glu	Gly	Met	Leu	Phe
65					70					75					80
Ala	Gln	Thr	Met	Ser	Arg	Asp	Ala	Glu	Glu	Met	Val	Ala	Glu	Ala	Lys
				85					90					95	
Arg	Leu	Asn	Asn	Ala	Leu	Pro	Asp	Ile	Val	Val	Lys	Ile	Pro	Val	Thr
			100					105					110		
Ala	Gln	Gly	Leu	Ile	Ala	Ile	Lys	Ala	Leu	Lys	Lys	Glu	Gly	Ile	Thr
		115					120					125			
Thr	Leu	Gly	Thr	Ala	Val	Tyr	Ser	Ala	Ala	Gln	Gly	Leu	Leu	Ala	Ala
	130					135					140				
Leu	Ala	Gly	Ala	Lys	Tyr	Val	Ala	Pro	Tyr	Val	Asn	Arg	Val	Asp	Ala
145					150					155					160
Gln	Gly	Gly	Asp	Gly	Ile	Gly	Met	Val	Gln	Glu	Leu	Gln	Ser	Leu	Leu
				165					170					175	
Glu	Leu	His	Ala	Pro	Glu	Ser	Met	Val	Leu	Ala	Ala	Ser	Phe	Lys	Thr
			180					185					190		
Pro	Arg	Gln	Ala	Leu	Asp	Cys	Leu	Leu	Ala	Gly	Cys	Glu	Ala	Ile	Thr
		195					200					205			
Leu	Pro	Leu	Asp	Val	Ala	Gln	Gln	Met	Leu	Asp	Thr	Pro	Ala	Val	Glu
	210					215					220				
Ser	Ala	Ile	Glu	Lys	Phe	Glu	Gln	Asp	Trp	Lys	Asn	Ala	Phe	Gly	Asn
225					230					235					240
Leu	Asn	Leu													

<210> 8797

<211> 372

<212> PRT

<213> Enterobacter cloacae

<400> 8797

Gly	Arg	Thr	Val	Met	Asp	Arg	Ile	Ile	Gln	Ser	Pro	Gly	Lys	Tyr	Ile
1				5					10					15	
Gln	Gly	Ala	Asp	Val	Leu	Thr	Arg	Leu	Gly	Asp	Tyr	Leu	Lys	Pro	Leu
			20					25					30		
Ala	Asn	Arg	Trp	Leu	Val	Val	Gly	Asp	Lys	Phe	Val	Leu	Gly	Phe	Ala
		35					40					45			
Glu	Glu	Thr	Leu	Arg	Gln	Ser	Phe	Lys	Lys	Ala	Gly	Leu	His	Ala	Glu
	50					55					60				
Ile	Ala	Pro	Phe	Gly	Gly	Glu	Cys	Ser	Gln	Asn	Glu	Ile	Asp	Arg	Leu
65					70					75					80
Lys	Lys	Leu	Ala	Asp	Ser	Ala	Asp	Cys	Leu	Ala	Val	Leu	Gly	Ile	Gly
				85					90					95	
Gly	Gly	Lys	Thr	Leu	Asp	Thr	Ala	Lys	Ala	Leu	Ala	His	Phe	Met	Asp
			100					105					110		
Val	Pro	Val	Ala	Ile	Ala	Pro	Thr	Ile	Ala	Ser	Thr	Asp	Ala	Pro	Cys
		115					120					125			
Ser	Ala	Leu	Ser	Val	Ile	Tyr	Thr	Asp	Ser	Gly	Glu	Phe	Asp	Arg	Tyr
	130					135					140				
Leu	Met	Leu	Pro	His	Asn	Pro	Asn	Met	Val	Ile	Val	Asp	Thr	Lys	Val
145					150					155					160

Val Ala Gly Ala Pro Ala Arg Leu Leu Ala Ala Gly Ile Gly Asp Ala
 165 170 175
 Leu Ala Thr Trp Phe Glu Ala Arg Ala Cys Ser Arg Ser Gly Ala Thr
 180 185 190
 Thr Met Ala Gly Gly Lys Cys Thr Gln Ala Ala Leu Ala Leu Ala Glu
 195 200 205
 Leu Cys Tyr Asn Thr Leu Val Glu Glu Gly Glu Lys Ala Met Leu Ala
 210 215 220
 Ala Glu Gln His Val Val Thr Pro Ala Leu Glu Arg Ile Ile Glu Ala
 225 230 235 240
 Asn Thr Tyr Leu Ser Gly Val Gly Phe Glu Ser Gly Gly Leu Ala Ala
 245 250 255
 Ala His Ala Ile His Asn Gly Met Thr Ala Val Pro Asp Ala His His
 260 265 270
 Phe Tyr His Gly Glu Lys Val Ala Phe Gly Thr Leu Thr Gln Leu Val
 275 280 285
 Leu Glu Asn Ala Pro Val Glu Glu Ile Glu Thr Val Ala Ala Leu Cys
 290 295 300
 His Ser Val Gly Leu Pro Ile Thr Leu Ala Gln Leu Asn Ile Lys Glu
 305 310 315 320
 Asp Ile Pro Ala Lys Met Arg Leu Ile Ala Glu Ala Ser Cys Ala Glu
 325 330 335
 Gly Glu Thr Ile His Asn Met Pro Gly Gly Val Thr Pro Asp Gln Val
 340 345 350
 Tyr Ala Ala Leu Leu Val Ala Asp Gln Tyr Gly Gln Arg Phe Leu Gln
 355 360 365
 Glu Trp Glu
 370

<210> 8798

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 8798

Ile Met Asn Ile Arg Asp Leu Glu Tyr Leu Val Ala Leu Ala Glu His
 1 5 10 15
 Arg His Phe Arg Arg Ala Ala Asp Ser Cys His Val Ser Gln Pro Thr
 20 25 30
 Leu Ser Gly Gln Ile Arg Lys Leu Glu Asp Glu Leu Gly Val Met Leu
 35 40 45
 Leu Glu Arg Thr Ser Arg Lys Val Leu Phe Thr Gln Ala Gly Leu Leu
 50 55 60
 Leu Val Asp Gln Ala Arg Thr Val Leu Arg Glu Val Lys Val Leu Lys
 65 70 75 80
 Glu Met Ala Ser Gln Gln Gly Glu Ala Met Ser Gly Pro Leu His Ile
 85 90 95
 Gly Leu Ile Pro Thr Val Gly Pro Tyr Leu Leu Pro Gln Ile Ile Pro
 100 105 110
 Met Leu His Gln Thr Phe Pro Lys Leu Glu Met Tyr Leu His Glu Ala
 115 120 125
 Gln Thr His Gln Leu Leu Ala Gln Leu Asp Ser Gly Lys Leu Asp Cys
 130 135 140
 Ala Ile Leu Ala Leu Val Lys Glu Ser Glu Ala Phe Ile Glu Val Pro
 145 150 155 160
 Leu Phe Asp Glu Pro Met Met Leu Ala Ile Tyr Glu Asp His Pro Trp
 165 170 175
 Ala Asn Arg Asp Arg Val Pro Met Ala Asp Leu Ala Gly Glu Lys Leu
 180 185 190
 Leu Met Leu Glu Asp Gly His Cys Leu Arg Asp Gln Ala Met Gly Phe
 195 200 205

Cys Phe Glu Ala Gly Ala Asp Glu Asp Thr His Phe Arg Ala Thr Ser
 210 215 220
 Leu Glu Thr Leu Arg Asn Met Val Ala Ala Gly Ser Gly Ile Thr Leu
 225 230 235 240
 Leu Pro Ala Leu Ala Val Pro His Glu Arg Lys Arg Asp Gly Val Val
 245 250 255
 Tyr Leu Pro Cys Ile Lys Pro Glu Pro Arg Arg Thr Ile Gly Leu Val
 260 265 270
 Tyr Arg Pro Gly Ser Pro Leu Arg Ser Arg Tyr Glu Gln Leu Ala Glu
 275 280 285
 Ala Ile Arg Gly Ala Met Asp Gly His Phe Asp Ser Ala Leu Lys Gln
 290 295 300
 Ala Val
 305

<210> 8799

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 8799

Pro Thr Cys Ser Ile Lys Ile Thr Arg Gln Phe Met Ala Thr Lys Leu
 1 5 10 15
 Gln Asp Gly Asn Thr Pro Cys Leu Ala Ala Thr Pro Ser Asp Pro Arg
 20 25 30
 Pro Thr Val Leu Leu Phe Asp Ser Gly Val Gly Gly Leu Ser Val Tyr
 35 40 45
 Asp Glu Ile Arg Gln Leu Leu Pro Asp Leu His Tyr Ile Tyr Ala Phe
 50 55 60
 Asp Asn Val Ala Phe Pro Tyr Gly Glu Lys Ser Glu Asp Phe Ile Val
 65 70 75 80
 Glu Arg Val Val Glu Ile Val Thr Ala Val Gln Lys Arg Tyr Pro Leu
 85 90 95
 Ala Leu Ala Val Ile Ala Cys Asn Thr Ala Ser Thr Val Ser Leu Pro
 100 105 110
 Ala Leu Arg Glu Lys Phe Pro Phe Pro Val Val Gly Val Val Pro Ala
 115 120 125
 Ile Lys Pro Ala Ala Arg Leu Thr Ala Asn Gly Ile Val Gly Leu Leu
 130 135 140
 Ala Thr Arg Gly Thr Val Lys Arg Pro Tyr Thr Arg Glu Leu Ile Glu
 145 150 155 160
 Arg Phe Ala Asn Glu Cys Gln Ile Ala Met Leu Gly Ser Ala Glu Leu
 165 170 175
 Val Glu Met Ala Glu Ala Lys Leu His Gly Glu Thr Val Ser Leu Glu
 180 185 190
 Glu Leu Arg Arg Ile Leu Arg Pro Trp Leu Arg Met Gln Glu Pro Pro
 195 200 205
 Asp Thr Val Val Leu Gly Cys Thr His Phe Pro Leu Leu Gln Glu Glu
 210 215 220
 Leu Leu Lys Val Leu Pro Glu Gly Thr Arg Leu Val Asp Ser Gly Ala
 225 230 235 240
 Ala Ile Ala Arg Arg Thr Ala Trp Leu Leu Glu His Glu Ala Pro Asp
 245 250 255
 Ala Lys Ser Ala Asp Ala Asn Ile Ala Phe Cys Met Ala Ile Thr Lys
 260 265 270
 Glu Thr Glu Gln Leu Leu Pro Val Leu Arg Arg Tyr Gly Phe Glu Thr
 275 280 285
 Leu Glu Lys Leu Ala Leu
 290 295

<210> 8800

<211> 829

<212> PRT

<213> Enterobacter cloacae

<400> 8800

Arg	Phe	Asn	Cys	Arg	Ser	Gly	Lys	Trp	Leu	Pro	Gly	Arg	Ser	Gln	Gly
1				5					10					15	
Val	Ile	Met	Ser	Val	Ile	Ala	Gln	Ala	Gly	Ala	Lys	Gly	Arg	Gln	Leu
			20					25					30		
His	Lys	Phe	Gly	Gly	Ser	Ser	Leu	Ala	Asp	Val	Lys	Cys	Tyr	Leu	Arg
		35					40					45			
Val	Ala	Gly	Ile	Met	Thr	Glu	Tyr	Ser	Gln	Pro	Gly	Asp	Met	Met	Val
	50					55					60				
Val	Ser	Ala	Ala	Gly	Ser	Thr	Thr	Asn	Gln	Leu	Ile	Ser	Trp	Leu	Lys
65					70					75					80
Leu	Ser	Gln	Thr	Asp	Arg	Leu	Ser	Ala	His	Gln	Val	Gln	Gln	Ser	Leu
				85					90					95	
Arg	Arg	Tyr	Gln	Ser	Glu	Leu	Ile	Ala	Gly	Leu	Leu	Pro	Ala	Asp	Val
			100					105					110		
Ala	Asp	Gly	Leu	Ile	Ser	Ala	Phe	Thr	His	Asp	Leu	Glu	Arg	Leu	Ala
		115					120					125			
Ala	Leu	Leu	Asp	Ser	Gly	Ile	Thr	Asp	Ala	Val	Tyr	Ala	Glu	Val	Val
		130				135					140				
Gly	His	Gly	Glu	Val	Trp	Ser	Ala	Arg	Leu	Met	Ala	Ala	Val	Leu	Gln
145					150					155					160
His	Leu	Gly	Val	Glu	Ala	Ala	Trp	Leu	Asp	Ala	Arg	Asp	Phe	Leu	Arg
				165					170					175	
Ala	Glu	Arg	Ala	Ala	Gln	Pro	Gln	Val	Asp	Glu	Gly	Leu	Ser	Tyr	Pro
			180					185					190		
Leu	Leu	Gln	Gln	Leu	Leu	Val	Gln	His	Pro	Gly	Lys	Arg	Ile	Val	Val
		195					200					205			
Thr	Gly	Phe	Ile	Ser	Arg	Ser	Asn	Ala	Gly	Glu	Thr	Val	Leu	Leu	Gly
	210					215					220				
Arg	Asn	Gly	Ser	Asp	Tyr	Ser	Ala	Thr	Gln	Ile	Gly	Ala	Leu	Ala	Gly
225					230					235					240
Val	Ser	Arg	Val	Thr	Ile	Trp	Ser	Asp	Val	Ala	Gly	Val	Tyr	Ser	Ala
				245					250					255	
Asp	Pro	Arg	Lys	Val	Lys	Asp	Ala	Cys	Leu	Leu	Pro	Leu	Leu	Arg	Leu
			260					265						270	
Asp	Glu	Ala	Ser	Glu	Leu	Ala	Arg	Leu	Ala	Ala	Pro	Val	Leu	His	Ala
		275					280					285			
Arg	Thr	Leu	Gln	Pro	Val	Ser	Gly	Ser	Asp	Ile	Asp	Leu	Gln	Leu	Arg
	290					295					300				
Cys	Ser	Tyr	Thr	Pro	Asp	Gln	Gly	Ser	Thr	Arg	Ile	Glu	Arg	Val	Leu
305					310					315					320
Ala	Ser	Gly	Thr	Gly	Ala	Arg	Ile	Val	Thr	Ser	His	Asp	Asp	Ile	Cys
				325					330					335	
Leu	Ile	Glu	Phe	Gln	Val	Pro	Ala	Gly	Gln	Asp	Phe	Lys	Leu	Ala	His
			340					345					350		
Lys	Asp	Ile	Asp	Thr	Ile	Leu	Lys	Arg	Ala	Gln	Val	Arg	Pro	Leu	Ala
		355					360					365			
Val	Gly	Val	His	Asn	Asp	Arg	Gln	Leu	Leu	Gln	Phe	Cys	Tyr	Thr	Ala
	370					375					380				
Glu	Val	Val	Asp	Ser	Ala	Leu	Lys	Ile	Leu	Asp	Glu	Ala	Gly	Leu	Pro
385					390					395					400
Gly	Glu	Leu	Arg	Leu	Arg	Gln	Gly	Leu	Ala	Leu	Val	Ala	Met	Val	Gly
				405					410					415	
Ala	Gly	Val	Thr	Arg	Asn	Pro	Leu	His	Cys	His	Arg	Phe	Trp	Gln	Gln
			420					425					430		
Leu	Lys	Gly	Gln	Pro	Val	Glu	Phe	Thr	Trp	Gln	Ser	Glu	Glu	Gly	Ile
		435					440					445			

Ser Leu Val Ala Val Leu Arg Lys Gly Pro Thr Glu Ser Leu Ile Gln
 450 455 460
 Gly Leu His Thr Ser Leu Phe Arg Ala Glu Lys Arg Ile Gly Leu Val
 465 470 475 480
 Leu Phe Gly Lys Gly Asn Ile Gly Ser Arg Trp Leu Glu Leu Phe Ala
 485 490 495
 Arg Glu Gln Val Thr Leu Ser Ala Arg Thr Gly Phe Glu Phe Ile Leu
 500 505 510
 Ala Gly Val Val Asp Ser Arg Arg Ser Leu Leu Asn Tyr Glu Gly Leu
 515 520 525
 Asp Ala Ser Arg Ala Leu Ala Phe Phe Asn Asp Glu Ala Val Glu Gln
 530 535 540
 Asp Glu Glu Ser Leu Phe Leu Trp Met Arg Ala His Pro Tyr Asp Asp
 545 550 555 560
 Leu Val Val Leu Asp Val Thr Ala Ser Glu Gln Leu Ala Asp Gln Tyr
 565 570 575
 Leu Asp Phe Ala Ser His Gly Phe His Val Ile Ser Ala Asn Lys Leu
 580 585 590
 Ala Gly Ala Ser Ser Thr Asp Lys Tyr Arg Gln Ile His Asp Ala Phe
 595 600 605
 Glu Lys Thr Gly Arg His Trp Leu Tyr Asn Ala Thr Val Gly Ala Gly
 610 615 620
 Leu Pro Val Asn His Thr Val Arg Asp Leu Ile Glu Ser Gly Asp Ser
 625 630 635 640
 Ile Leu Ala Leu Ser Gly Ile Phe Ser Gly Thr Leu Ser Trp Leu Phe
 645 650 655
 Leu Gln Phe Asp Gly Thr Val Pro Phe Thr Asp Leu Val Asp Gln Ala
 660 665 670
 Trp Gln Gln Gly Leu Thr Glu Pro Asp Pro Arg Val Asp Leu Ala Gly
 675 680 685
 Lys Asp Val Met Arg Lys Leu Val Ile Leu Ala Arg Glu Ala Gly Tyr
 690 695 700
 Asp Ile Glu Pro Gly Gln Val Arg Val Glu Ser Leu Val Pro Ala Gly
 705 710 715 720
 Cys Glu Glu Gly Ser Val Asp His Phe Phe Glu Asn Gly Asp Glu Leu
 725 730 735
 Asn Glu Gln Met Val Gln Arg Leu Glu Ala Ala Asn Glu Met Gly Leu
 740 745 750
 Val Leu Arg Tyr Val Ala Arg Phe Glu Ala Asn Gly Lys Ala Arg Val
 755 760 765
 Gly Val Glu Ala Val Arg Pro Glu His Pro Leu Ala Ala Leu Leu Pro
 770 775 780
 Cys Asp Asn Val Phe Ala Ile Glu Ser Arg Trp Tyr Arg Asp Asn Pro
 785 790 795 800
 Leu Val Ile Arg Gly Pro Gly Ala Gly Arg Asp Val Thr Ala Gly Ala
 805 810 815
 Ile Gln Ser Asp Ile Asn Arg Leu Ala Lys Leu Leu
 820 825

<210> 8801

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 8801

Leu Ile Glu Glu Lys Asn Met Ala Arg Ile Ile Ala Val Thr Ala Cys
 1 5 10 15
 Pro Ser Gly Val Ala His Thr Tyr Met Ala Ala Glu Ala Leu Glu Ser
 20 25 30
 Ala Ala Lys Ser Lys Gly Trp Glu Val Lys Val Glu Thr Gln Gly Ser
 35 40 45

Ile	Gly	Leu	Glu	Asn	Glu	Leu	Thr	Ala	Glu	Asp	Val	Ala	Ala	Ala	Asp
50						55					60				
Met	Val	Ile	Leu	Thr	Lys	Asp	Ile	Gly	Ile	Lys	Phe	Glu	Glu	Arg	Phe
65					70					75					80
Ala	Gly	Lys	Thr	Ile	Val	Arg	Val	Asn	Ile	Ser	Asp	Ala	Val	Lys	Arg
				85					90					95	
Ala	Asp	Ala	Ile	Met	Asn	Lys	Ile	Asp	Ala	His	Leu	Ala	Gln	Ile	Ala
			100					105					110		

<210> 8802

<211> 783

<212> PRT

<213> Enterobacter cloacae

<400> 8802

Arg	Ser	Pro	Ala	Leu	Arg	Gly	Gly	Phe	Val	Phe	Arg	Tyr	Arg	Ser	Ser
1				5					10					15	
Leu	Met	Thr	Asn	Arg	Ile	Gln	Arg	Leu	Lys	Asp	Ala	Leu	Phe	Ala	Ser
			20					25					30		
Pro	Arg	Glu	Ile	Ser	Leu	Glu	Arg	Ala	Leu	Leu	Tyr	Thr	Ala	Ser	His
		35					40					45			
Gln	Gln	Thr	Glu	Gly	Glu	Pro	Val	Ile	Leu	Arg	Arg	Ala	Lys	Ala	Thr
	50					55					60				
Ala	Tyr	Ile	Leu	Asp	His	Val	Asn	Ile	Ala	Ile	Arg	Asp	Glu	Glu	Leu
65					70					75					80
Ile	Ala	Gly	Asn	Arg	Thr	Val	Lys	Pro	Arg	Ala	Gly	Ile	Met	Ser	Pro
			85					90					95		
Glu	Met	Asp	Pro	Tyr	Trp	Leu	Leu	Lys	Glu	Leu	Asp	Gln	Phe	Ser	Thr
			100					105					110		
Arg	Pro	Gln	Asp	Arg	Phe	Glu	Ile	Gly	Glu	Ala	Asp	Lys	Gln	Ile	Tyr
		115					120					125			
Arg	Asp	Val	Leu	Tyr	Pro	Tyr	Trp	Glu	Lys	Arg	Ser	Met	Lys	Asp	Phe
	130					135					140				
Ile	Asn	Ser	Gln	Met	Thr	Asp	Glu	Val	Lys	Ala	Ala	Val	Gly	Thr	Gln
145					150					155					160
Ile	Phe	Ser	Val	Asn	Gln	Thr	Asp	Lys	Gly	Gln	Gly	His	Ile	Ile	Ile
				165					170					175	
Asp	Tyr	Pro	His	Leu	Leu	Asn	Asn	Gly	Leu	Gly	Ala	Leu	Val	Glu	Gln
		180						185					190		
Met	Arg	Glu	Tyr	Cys	Ala	Arg	Asp	Ala	Gln	Asn	Thr	Phe	Tyr	Ala	Ala
		195					200					205			
Ala	Leu	Ile	Leu	Leu	Glu	Ala	Ser	Gln	Arg	His	Ile	Leu	Arg	Tyr	Ala
	210					215					220				
Ala	Leu	Ala	Glu	Thr	Leu	Ala	Thr	Val	Cys	Asp	Asp	Ala	Ser	Arg	Arg
225					230					235					240
Glu	Glu	Leu	Arg	Lys	Ile	Ala	Glu	Ile	Ser	Arg	His	Asn	Ala	Glu	His
				245					250					255	
Lys	Pro	Gln	Thr	Phe	Trp	Gln	Ala	Cys	Gln	Leu	Phe	Trp	Tyr	Met	Asn
		260					265						270		
Val	Ile	Leu	Gln	Tyr	Glu	Ser	Asn	Ala	Ser	Ser	Leu	Ser	Ile	Gly	Arg
		275					280					285			
Phe	Asp	Gln	Tyr	Met	Leu	Pro	Phe	Tyr	Gln	Ala	Ser	Leu	Thr	Gln	Gly
	290					295					300				
Asp	Asp	Pro	Ala	Phe	Leu	Lys	Glu	Leu	Leu	Glu	Ser	Leu	Trp	Val	Lys
305					310					315					320
Cys	Asn	Asp	Val	Val	Leu	Leu	Arg	Ser	Thr	Ser	Ser	Ala	Arg	Tyr	Phe
			325						330					335	
Ala	Gly	Phe	Pro	Thr	Gly	Tyr	Thr	Ala	Leu	Leu	Gly	Gly	Leu	Thr	Glu
			340					345					350		

Ser Gly Arg Asn Ala Val Asn Val Leu Ser Phe Leu Cys Leu Asp Ala
 355 360 365
 Tyr Gln Ser Val Gln Leu Pro Gln Pro Asn Leu Gly Val Arg Val Asn
 370 375 380
 Glu Leu Ile Asp Arg Pro Phe Leu Leu Lys Thr Ala Glu Thr Ile Arg
 385 390 395 400
 Leu Gly Thr Gly Ile Pro Gln Ile Phe Asn Asp Glu Val Val Val Pro
 405 410 415
 Ala Phe Leu Asn Arg Gly Val Ser Leu Glu Asp Ala Arg Asp Tyr Ala
 420 425 430
 Val Val Gly Cys Val Glu Leu Ser Ile Pro Gly Lys Thr Tyr Gly Leu
 435 440 445
 His Asp Ile Ala Met Phe Asn Leu Leu Lys Val Met Glu Ile Ala Met
 450 455 460
 Leu Glu Asn Glu Gly Asn Ser Thr Leu Ser Tyr Glu Gly Leu Leu Asp
 465 470 475 480
 His Ile Arg Ala Lys Ile Asn His Tyr Ile Ala Leu Met Val Glu Gly
 485 490 495
 Ser Asn Ile Cys Asp Ile Gly His Arg Asp Trp Ala Pro Val Pro Leu
 500 505 510
 Leu Ser Ser Phe Ile Ser Asp Cys Leu Glu Ser Gly Lys Asp Ile Thr
 515 520 525
 Asp Gly Gly Ala Arg Tyr Asn Phe Ser Gly Val Gln Gly Ile Gly Ile
 530 535 540
 Ala Asn Leu Ser Asp Ser Leu His Ala Leu Lys Gly Leu Val Phe Glu
 545 550 555 560
 Gln His Arg Leu Ser Phe Asp Glu Leu Leu Ala Val Leu Lys Ala Asn
 565 570 575
 Phe Ala Thr Pro Glu Gly Glu Lys Val Arg Ala Arg Leu Ile Asn Arg
 580 585 590
 Phe Glu Lys Tyr Gly Asn Asp Ile Asp Asp Val Asp Asn Ile Ser Ala
 595 600 605
 Glu Leu Leu Arg His Tyr Cys Lys Glu Val Glu Lys Tyr Arg Asn Pro
 610 615 620
 Arg Gly Gly Gln Phe Thr Pro Gly Ser Tyr Thr Val Ser Ala His Val
 625 630 635 640
 Pro Leu Gly Ala Val Gly Ala Thr Pro Asp Gly Arg Phe Ala Gly
 645 650 655
 Glu Gln Leu Ala Asp Gly Gly Leu Ser Pro Met Leu Gly Gln Asp Met
 660 665 670
 Gln Gly Pro Thr Ala Val Leu Lys Ser Val Ser Lys Leu Asp Asn Tyr
 675 680 685
 Leu Leu Ser Asn Gly Thr Leu Leu Asn Val Lys Phe Thr Pro Ala Thr
 690 695 700
 Leu Glu Gly Asp Ala Gly Leu Gln Lys Leu Ala Asp Phe Leu Arg Ala
 705 710 715 720
 Phe Thr Gln Leu Lys Leu Gln His Ile Gln Phe Asn Val Val Asn Ala
 725 730 735
 Glu Thr Leu Arg Glu Ala Gln Gln Arg Pro Gln Asp Phe Ala Gly Leu
 740 745 750
 Val Val Arg Val Ala Gly Tyr Ser Ala Phe Phe Val Glu Leu Ser Lys
 755 760 765
 Glu Ile Gln Asp Asp Ile Ile Arg Arg Thr Ala His Gln Leu
 770 775 780

<210> 8803

<211> 140

<212> PRT

<213> Enterobacter cloacae

<400> 8803

Gly Val Ser Asp Ala Ser Thr Gly Arg Ala Arg Arg Phe Gln Cys Tyr
 1 5 10 15
 Arg Gly Arg Leu Asn Met Thr Val Ile Thr Gly Arg His Leu Val Ala
 20 25 30
 Val Thr Ala Cys Val Ser Gly Val Ala His Thr Tyr Met Ala Ala Glu
 35 40 45
 Arg Leu Glu Lys Leu Cys Gln Gln Glu Lys Trp Ser Val Asn Ile Glu
 50 55 60
 Thr Gln Gly Ala Leu Gly Val Glu Cys Glu Leu Thr Glu Asp Asp Ile
 65 70 75 80
 Arg Arg Ala Asp Val Leu Leu Ile Thr Asp Ile Glu Leu Ala Gly
 85 90 95
 Ser Glu Arg Phe Glu His Ala Arg Tyr Val Lys Cys Gly Ile Ser Ala
 100 105 110
 Phe Leu Arg Asp Pro Gln Lys Val Met Gly Ala Val Arg Lys Met Leu
 115 120 125
 Ala Ala Pro Gln His Thr Gln Val Ile Leu Asp
 130 135 140

<210> 8804

<211> 338

<212> PRT

<213> Enterobacter cloacae

<400> 8804

Arg Asn Pro Met Leu Asn Thr Leu Ile Val Gly Ala Ser Gly Tyr Ala
 1 5 10 15
 Gly Ala Glu Leu Val Ser Tyr Val Asn Arg His Pro His Met Thr Ile
 20 25 30
 Thr Ala Leu Thr Val Ser Ala Gln Ser Asn Asp Ala Gly Lys Leu Ile
 35 40 45
 Ser Asp Leu His Pro Gln Leu Lys Gly Val Val Asp Leu Pro Leu Gln
 50 55 60
 Pro Met Ser Asp Ile Ser Glu Phe Thr Asp Gly Val Asp Val Val Phe
 65 70 75 80
 Leu Ala Thr Ala His Glu Val Ser His Asp Leu Ala Pro Gln Phe Leu
 85 90 95
 Ala Ala Gly Cys Val Val Phe Asp Leu Ser Gly Ala Phe Arg Val Asn
 100 105 110
 Asp Gly Ala Phe Tyr Glu Lys Tyr Tyr Gly Phe Thr His Gln His Pro
 115 120 125
 Asp Leu Leu Glu Lys Ala Val Tyr Gly Leu Ala Glu Trp Ser Ala Asp
 130 135 140
 Lys Leu Lys Glu Ala Asn Leu Ile Ala Val Pro Gly Cys Tyr Pro Thr
 145 150 155 160
 Ala Ala Gln Leu Ser Leu Lys Pro Leu Ile Asp Ala Gly Leu Leu Asp
 165 170 175
 Leu Asn Gln Trp Pro Val Ile Asn Ala Thr Ser Gly Val Ser Gly Ala
 180 185 190
 Gly Arg Lys Ala Ala Ile Ser Asn Ser Phe Cys Glu Val Ser Leu Gln
 195 200 205
 Ala Tyr Gly Val Phe Asn His Arg His His Pro Glu Ile Thr Thr His
 210 215 220
 Leu Gly Ala Asp Val Ile Phe Thr Pro His Leu Gly Ser Phe Pro Arg
 225 230 235 240
 Gly Ile Leu Glu Thr Ile Thr Cys Arg Leu Lys Pro Gly Val Thr Lys
 245 250 255
 Glu Gln Val Asn Glu Val Phe Thr Gln Ala Tyr Ala Asp Lys Pro Leu
 260 265 270
 Val Arg Leu Tyr Asp Lys Gly Val Pro Ala Leu Lys Asn Val Val Gly
 275 280 285

Leu Pro Phe Cys Asp Ile Gly Phe Ala Val Gln Gly Glu His Leu Ile
 290 295 300
 Val Val Ala Ala Glu Asp Asn Leu Leu Lys Gly Ala Ala Ala Gln Ala
 305 310 315 320
 Met Gln Cys Ala Asn Ile Arg Phe Gly Phe Pro Glu Thr Gln Ala Leu
 325 330 335
 Ile

<210> 8805

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 8805

Gly Val Met Met Asn Pro Leu Ile Ile Lys Leu Gly Gly Val Leu Leu
 1 5 10 15
 Asp Ser Glu Glu Ala Leu Glu Arg Leu Phe Asn Ala Leu Val Asn Tyr
 20 25 30
 Arg Glu Ser His Gln Arg Pro Leu Val Ile Val His Gly Gly Cys
 35 40 45
 Val Val Asp Glu Leu Met Lys Gly Leu Asn Leu Pro Val Lys Lys Lys
 50 55 60
 Asn Gly Leu Arg Val Thr Pro Ala Asp Gln Ile Asp Ile Ile Thr Gly
 65 70 75 80
 Ala Leu Ala Gly Thr Ala Asn Lys Thr Leu Leu Ala Trp Ala Lys Lys
 85 90 95
 His His Ile Ala Ser Val Gly Leu Tyr Leu Gly Asp Gly Asp Ser Val
 100 105 110
 Lys Val Thr Gln Leu Asp Glu Glu Leu Gly His Val Gly Leu Ala Gln
 115 120 125
 Pro Gly Ser Pro Lys Leu Ile Asn Thr Leu Leu Glu Gly Gly Phe Leu
 130 135 140
 Pro Val Val Ser Ser Ile Gly Val Thr Glu Glu Gly Glu Leu Met Asn
 145 150 155 160
 Val Asn Ala Asp Gln Ala Ala Thr Ala Leu Ala Ala Thr Leu Gly Ala
 165 170 175
 Asp Leu Ile Leu Leu Ser Asp Val Ser Gly Ile Leu Asp Gly Lys Gly
 180 185 190
 Gln Arg Ile Ala Glu Met Thr Ala Ala Lys Ala Glu Gln Leu Ile Asp
 195 200 205
 Gln Gly Ile Ile Thr Asp Gly Met Ile Val Lys Val Asn Ala Ala Leu
 210 215 220
 Asp Ala Ala Arg Thr Leu Gly Arg Pro Val Asp Ile Ala Ser Trp Arg
 225 230 235 240
 His Ala Glu Gln Leu Pro Ala Leu Phe Asn Gly Thr Pro Ile Gly Thr
 245 250 255
 Arg Ile Leu Ala
 260

<210> 8806

<211> 473

<212> PRT

<213> Enterobacter cloacae

<400> 8806

Ala Gln Arg His Arg Ala Lys Ile Ser Ser Leu Arg Lys Phe Val Met
 1 5 10 15
 Ala Leu Trp Gly Gly Arg Phe Thr Gln Ala Ala Asp Gln Arg Phe Lys
 20 25 30
 Gln Phe Asn Asp Ser Leu Arg Phe Asp Tyr Arg Leu Ala Glu Gln Asp

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<210> 8807
<211> 269
<212> PRT
<213> Enterobacter cloacae
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<400> 8807

Lys Gln Gln Asn His Asn Ile Ile Ala Arg Val Thr Gln Leu Ser Leu
 1 5 10 15
 Cys Phe Phe Arg Ala Val Glu His Lys Pro Arg Val Asn Asn His Ser
 20 25 30
 Gln Ser Gln Val Asn Arg Leu Ile Leu Phe Ser Gly Ile Val Pro Thr
 35 40 45
 Gly Leu Trp Lys Asp Ser Thr Ile Val Met Gly Val Arg Ala Gln Gln
 50 55 60
 Lys Glu Lys Thr Arg Arg Ser Leu Val Glu Ala Ala Phe Ser Gln Leu
 65 70 75 80
 Ser Ala Glu Arg Ser Phe Ala Ser Leu Ser Leu Arg Glu Val Ala Arg
 85 90 95
 Glu Ala Gly Ile Ala Pro Thr Ser Phe Tyr Arg His Phe Arg Asp Val
 100 105 110
 Asp Glu Leu Gly Leu Thr Met Val Asp Glu Ser Gly Leu Met Leu Arg
 115 120 125
 Gln Leu Met Arg Gln Ala Arg Gln Arg Ile Ala Lys Gly Gly Ser Val
 130 135 140
 Ile Arg Thr Ser Val Ser Thr Phe Met Glu Phe Ile Gly Asn Asn Pro
 145 150 155 160
 Asn Ala Phe Arg Leu Leu Arg Glu Arg Ser Gly Thr Ser Ala Ala
 165 170 175
 Phe Arg Ala Ala Val Ala Arg Glu Ile Gln His Phe Ile Ala Glu Leu
 180 185 190
 Ala Asp Tyr Leu Glu Leu Glu Asn His Met Pro Arg Ala Phe Thr Glu
 195 200 205
 Ala Gln Ala Glu Ala Met Val Thr Ile Val Phe Ser Ala Gly Ala Glu
 210 215 220
 Ala Leu Asp Val Ser Ile Glu Gln Arg Lys Gln Leu Glu Glu Arg Leu
 225 230 235 240
 Val Leu Gln Leu Arg Met Ile Ser Lys Gly Ala Tyr Tyr Trp Tyr Arg
 245 250 255
 Arg Glu Gln Glu Lys Leu Ala His Gln Asn Asp Glu
 260 265

<210> 8808

<211> 126

<212> PRT

<213> Enterobacter cloacae

<400> 8808

Val Met Lys Gln Ser Gly Gln Asp Lys Gly Thr Leu Leu Leu Ala Leu
 1 5 10 15
 Ile Ala Gly Leu Ser Ile Asn Gly Thr Phe Ala Ala Val Phe Ser Ser
 20 25 30
 Ile Val Pro Phe Ser Ile Phe Pro Ile Ile Ala Leu Val Leu Thr Val
 35 40 45
 Tyr Cys Leu His Gln Arg Tyr Leu Asn Arg Thr Met Pro Val Gly Leu
 50 55 60
 Pro Gly Leu Ala Ala Ala Cys Phe Ile Leu Gly Val Leu Leu Tyr Ser
 65 70 75 80
 Thr Val Val Arg Ala Glu Tyr Pro Asp Ile Gly Ser Asn Phe Leu Pro
 85 90 95
 Ala Val Leu Ser Val Ala Leu Val Phe Trp Ile Gly Ser Arg Met Arg
 100 105 110
 Ser Arg Lys Ser Glu Leu Pro Glu Tyr Arg Arg Val Leu
 115 120 125

<210> 8809

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 8809

Arg	Gly	Ser	Leu	Arg	Ser	Gly	Glu	Asp	Ala	Asp	Leu	Val	Leu	His	Ser
1				5					10					15	
Cys	Thr	Lys	Tyr	Leu	Asn	Gly	His	Ser	Asp	Val	Val	Ala	Gly	Val	Val
			20					25					30		
Ile	Ala	Lys	Asp	Pro	Asp	Val	Val	Thr	Glu	Leu	Ala	Trp	Trp	Ala	Asn
		35				40					45				
Asn	Ile	Gly	Val	Thr	Ala	Gly	Ala	Phe	Asp	Ser	Tyr	Leu	Leu	Leu	Arg
	50					55				60					
Gly	Ile	Arg	Thr	Leu	Ser	Pro	Arg	Met	Asp	Val	Ala	Gln	Arg	Asn	Ala
65				70					75					80	
Gln	Ala	Ile	Val	Asp	Phe	Leu	Lys	Thr	Gln	Pro	Leu	Val	Lys	Lys	Leu
			85					90					95		
Tyr	His	Pro	Ser	Leu	Pro	Glu	Asn	Gln	Gly	His	Glu	Ile	Ala	Ala	Arg
		100					105						110		
Gln	Gln	Lys	Gly	Phe	Gly	Ala	Met	Leu	Ser	Phe	Glu	Leu	Asp	Gly	Asp
		115				120					125				
Glu	Gln	Thr	Leu	Arg	Arg	Phe	Leu	Ser	Gly	Leu	Ser	Leu	Phe	Thr	Leu
	130					135				140					
Ala	Glu	Ser	Leu	Gly	Gly	Val	Glu	Ser	Leu	Ile	Ser	His	Ala	Ala	Thr
145				150					155						160
Met	Thr	His	Ala	Gly	Met	Ala	Pro	Glu	Ala	Arg	Ala	Ala	Ala	Gly	Ile
			165					170						175	
Ser	Glu	Thr	Leu	Leu	Arg	Ile	Ser	Thr	Gly	Ile	Glu	Asp	Ser	Glu	Asp
		180					185					190			
Leu	Ile	Ala	Asp	Leu	Glu	Asn	Gly	Phe	Arg	Val	Ala	Ala	Lys	Gly	
	195						200				205				

<210> 8810

<211> 298

<212> PRT

<213> Enterobacter cloacae

<400> 8810

Gly	Met	Ser	Phe	Phe	His	Ala	Asn	Gln	Arg	Glu	Ala	Leu	Asn	Gln	Ser
1				5				10						15	
Leu	Ala	Glu	Val	Asn	Gly	Gln	Ile	Asn	Val	Ser	Phe	Glu	Phe	Phe	Pro
			20				25						30		
Pro	Arg	Thr	Ser	Glu	Met	Glu	Gln	Thr	Leu	Trp	Ser	Ser	Ile	Asp	Arg
		35				40					45				
Leu	Ser	Ser	Leu	Lys	Pro	Lys	Phe	Val	Ser	Val	Thr	Tyr	Gly	Ala	Asn
	50					55				60					
Ser	Gly	Glu	Arg	Asp	Arg	Thr	His	Ser	Ile	Ile	Lys	Gly	Ile	Lys	Asp
65				70					75					80	
Arg	Thr	Gly	Leu	Glu	Ala	Ala	Pro	His	Leu	Thr	Cys	Ile	Asp	Ala	Thr
			85					90					95		
Arg	Asp	Glu	Leu	Arg	Ala	Ile	Ala	Gln	Asp	Tyr	Trp	Asn	Asn	Gly	Ile
		100					105						110		
Arg	His	Ile	Val	Ala	Leu	Arg	Gly	Asp	Leu	Pro	Pro	Gly	Ser	Gly	Lys
		115					120					125			
Pro	Glu	Met	Phe	Ala	Ala	Asp	Leu	Val	Gly	Leu	Leu	Lys	Asp	Val	Ala
	130					135				140					
Asp	Phe	Asp	Ile	Ser	Val	Ala	Ala	Tyr	Pro	Glu	Val	His	Pro	Glu	Ala
145				150					155					160	
Lys	Ser	Ala	Gln	Ala	Asp	Leu	Leu	Asn	Leu	Lys	Arg	Lys	Val	Glu	Ala
			165					170						175	
Gly	Ala	Asn	Arg	Ala	Ile	Thr	Gln	Phe	Phe	Phe	Asp	Val	Glu	Ser	Tyr
		180					185						190		

Leu Arg Phe Arg Asp Arg Cys Val Ser Ala Gly Ile Asp Val Glu Ile
 195 200 205
 Ile Pro Gly Ile Leu Pro Val Ser Asn Phe Lys Gln Ala Lys Lys Phe
 210 215 220
 Ala Asp Met Thr Asn Val Arg Ile Pro Leu Trp Met Ser Lys Met Tyr
 225 230 235 240
 Glu Gly Leu Asp Asp Asp Pro Glu Thr Arg Lys Leu Val Gly Ala Asn
 245 250 255
 Ile Ala Met Asp Met Val Lys Ile Leu Ser Arg Glu Gly Val Lys Asp
 260 265 270
 Phe His Phe Tyr Thr Leu Asn Arg Ala Glu Met Ser Tyr Ala Ile Cys
 275 280 285
 His Thr Leu Gly Val Arg Pro Ala Leu
 290 295

<210> 8811

<211> 734

<212> PRT

<213> Enterobacter cloacae

<400> 8811

His Cys Lys Gly Ser Ile Ala Met Ser Met Ser Asp Glu Thr Asn Asn
 1 5 10 15
 Ala Ala Ser Ala Gly Lys Cys Pro Phe His Gln Gly Gly Val Asp His
 20 25 30
 Ser Ala Gly Ala Gly Thr Gly Ser Lys Asp Trp Trp Pro Lys Gln Leu
 35 40 45
 Arg Ile Asp Leu Leu Asn Gln His Ser Asn Arg Ser Asn Pro Leu Gly
 50 55 60
 Glu Asp Phe Asp Tyr Arg Lys Glu Phe Ser Lys Leu Asp Tyr Ser Ala
 65 70 75 80
 Leu Lys Gly Asp Leu Lys Ala Leu Leu Thr Asp Ser Gln Pro Trp Trp
 85 90 95
 Pro Ala Asp Trp Gly Ser Tyr Ala Gly Leu Phe Ile Arg Met Ala Trp
 100 105 110
 His Gly Ala Gly Thr Tyr Arg Ser Val Asp Gly Arg Gly Gly Ala Gly
 115 120 125
 Arg Gly Gln Gln Arg Phe Ala Pro Leu Asn Ser Trp Pro Asp Asn Val
 130 135 140
 Ser Leu Asp Lys Ala Arg Arg Leu Leu Trp Pro Val Lys Gln Lys Tyr
 145 150 155 160
 Gly Gln Lys Ile Ser Trp Ala Asp Leu Phe Ile Leu Ala Gly Asn Val
 165 170 175
 Ala Leu Glu Asn Ser Gly Phe Arg Thr Phe Gly Phe Gly Ala Gly Arg
 180 185 190
 Glu Asp Val Trp Glu Pro Asp Leu Asp Val Asn Trp Gly Asp Glu Lys
 195 200 205
 Ala Trp Leu Thr His Arg Asp Pro Glu Ala Leu Ala Lys Arg Pro Leu
 210 215 220
 Ala Ala Thr Glu Met Gly Leu Ile Tyr Val Asn Pro Glu Gly Pro Asn
 225 230 235 240
 Ala Ser Gly Glu Pro Leu Ser Ala Ala Ala Ala Ile Arg Ala Thr Phe
 245 250 255
 Gly Asn Met Gly Met Asn Asp Glu Glu Thr Val Ala Leu Ile Ala Gly
 260 265 270
 Gly His Thr Leu Gly Lys Thr His Gly Ala Gly Glu Ala Thr His Val
 275 280 285
 Gly Thr Asp Pro Glu Ala Ser Pro Ile Glu Ala Gln Gly Leu Gly Trp
 290 295 300
 Ala Ser Thr His Gly Thr Gly Ile Gly Ala Asp Ala Ile Thr Ser Gly
 305 310 315 320

Leu Glu Val Ile Trp Ser Gln Thr Pro Thr Gln Trp Ser Asn Tyr Phe
 325 330
 Phe Glu Asn Leu Phe Lys Tyr Glu Trp Val Gln Thr Arg Ser Pro Ala
 340 345 350
 Gly Ala Ile Gln Phe Glu Ala Val Asp Ala Pro Glu Ile Met Pro Asp
 355 360 365
 Pro Phe Asp Pro Ser Lys Lys Arg Lys Pro Thr Met Leu Val Thr Asp
 370 375 380
 Leu Thr Leu Arg Phe Asp Pro Glu Phe Glu Lys Ile Ser Arg Arg Phe
 385 390 395 400
 Leu Asn Asp Pro Gln Ala Phe Asn Glu Ala Phe Ala Arg Ala Trp Phe
 405 410 415
 Lys Leu Thr His Arg Asp Met Gly Pro Lys Ala Arg Tyr Ile Gly Pro
 420 425 430
 Glu Val Pro Lys Glu Asp Leu Ile Trp Gln Asp Pro Leu Pro Gln Pro
 435 440 445
 Val Phe His Pro Thr Gln Glu Asp Ile Glu Ser Leu Lys Ala Glu Ile
 450 455 460
 Ala Ala Ser Gly Leu Ser Val Ser Glu Leu Val Ser Val Ala Trp Ala
 465 470 475 480
 Ser Ala Ser Thr Phe Arg Gly Gly Asp Lys Arg Gly Gly Ala Asn Gly
 485 490 495
 Ala Arg Leu Ala Leu Ala Pro Gln Arg Asp Trp Asp Val Asn Ala Ala
 500 505 510
 Ala Val Arg Ala Leu Pro Ala Leu Glu Ala Ile Gln Arg Thr Thr Asn
 515 520 525
 Lys Ala Ser Leu Ala Asp Ile Ile Val Leu Ala Gly Val Val Gly Val
 530 535 540
 Glu Gln Ala Ala Lys Ala Ala Gly Val Tyr Val Asn Val Pro Phe Thr
 545 550 555 560
 Pro Gly Arg Val Asp Ala Arg Gln Asp Gln Thr Asp Ile Glu Met Phe
 565 570 575
 Asn Leu Leu Glu Pro Val Ala Asp Gly Phe Arg Asn Tyr Arg Ala Gln
 580 585 590
 Val Asp Val Ser Thr Thr Glu Ser Leu Leu Ile Asp Lys Ala Gln Gln
 595 600 605
 Leu Thr Leu Thr Ala Pro Glu Leu Thr Val Leu Ile Gly Gly Leu Arg
 610 615 620
 Val Leu Gly Ala Asn Phe Asp Gly Ser Lys Asn Gly Val Phe Thr Asn
 625 630 635 640
 Arg Glu Gly Val Leu Ser Asn Asp Phe Phe Val Asn Leu Leu Asp Met
 645 650 655
 Asn Thr Gln Trp Lys Ala Thr Asp Asp Ser Asn Glu Leu Phe Ala Gly
 660 665 670
 Ser Asp Arg Ala Ser Gly Glu Val Lys Tyr Thr Ala Thr Arg Ala Asp
 675 680 685
 Leu Val Phe Gly Ser Asn Ala Val Leu Arg Ala Leu Ala Glu Val Tyr
 690 695 700
 Ala Ser Ser Asp Ala His Glu Lys Phe Val Arg Asp Phe Val Ala Ala
 705 710 715 720
 Trp Ala Arg Val Met Asp Leu Asp Arg Phe Asp Val Lys
 725 730

<210> 8812

<211> 377

<212> PRT

<213> Enterobacter cloacae

<400> 8812

Leu Pro Ile Val Cys His Asn Ile Phe Met Val Leu Gly Gln Glu Arg
 1 5 10 15

His Met Lys Glu Leu Val His Ile Leu Lys Asn Thr Arg Gln His Leu
 20 25 30
 Met Thr Gly Val Ser His Met Ile Pro Phe Val Val Ser Gly Gly Ile
 35 40 45
 Leu Leu Ala Val Ser Val Met Leu Tyr Gly Lys Gly Ala Val Pro Asp
 50 55 60
 Ala Ala Thr Asp Pro Asn Leu Lys Lys Leu Phe Asp Ile Gly Val Ala
 65 70 75 80
 Gly Leu Thr Leu Met Val Pro Phe Leu Ala Ala Tyr Ile Gly Tyr Ser
 85 90 95
 Ile Ala Glu Arg Ala Ala Leu Ala Pro Cys Ala Ile Ala Ala Trp Val
 100 105 110
 Gly Asn Ser Phe Gly Ala Gly Phe Phe Gly Ala Ile Ile Ala Gly Ile
 115 120 125
 Phe Gly Gly Ile Val Val Trp Tyr Leu Lys Lys Leu Pro Val Pro Lys
 130 135 140
 Val Leu Arg Ser Val Met Pro Ile Phe Ile Ile Pro Ile Ile Gly Thr
 145 150 155 160
 Phe Ile Thr Ala Gly Ile Met Met Trp Gly Leu Gly Glu Pro Val Gly
 165 170 175
 Ala Leu Thr Thr Gly Leu Thr Gln Trp Leu Gln Gly Met Gln Gln Gly
 180 185 190
 Ser Ile Val Val Leu Ala Ile Ile Gly Leu Met Leu Ala Phe Asp
 195 200 205
 Met Gly Gly Pro Val Asn Lys Val Ala Tyr Ala Phe Met Leu Ile Cys
 210 215 220
 Val Ala Gln Gly Val Tyr Thr Val Val Ala Ile Ala Ala Val Ala Ile
 225 230 235 240
 Cys Ile Pro Pro Leu Gly Leu Gly Leu Ala Thr Leu Ile Asn Arg Lys
 245 250 255
 Ser Phe Thr Gly Glu Glu Arg Glu Ala Gly Lys Ala Ala Leu Val Met
 260 265 270
 Gly Cys Val Gly Val Thr Glu Gly Ala Ile Pro Phe Ala Ala Ala Asp
 275 280 285
 Pro Leu Arg Val Ile Pro Ser Ile Met Leu Gly Ser Ala Cys Gly Ala
 290 295 300
 Val Thr Ala Ala Val Met Gly Ala Gln Cys Tyr Ala Gly Trp Gly Gly
 305 310 315 320
 Leu Ile Val Leu Pro Val Val Glu Gly Lys Leu Gly Tyr Ile Val Ala
 325 330 335
 Val Ala Val Gly Ala Val Val Thr Ala Ile Ser Val Asn Val Leu Lys
 340 345 350
 Ser Phe Ala Arg Lys Asn Ala Lys Gln Val Glu Glu Lys Glu Asp Asp
 355 360 365
 Leu Asp Leu Asp Phe Glu Ile Asn
 370 375

<210> 8813

<211> 329

<212> PRT

<213> Enterobacter cloacae

<400> 8813

Thr Arg Lys His Cys Val Lys Arg Asn Ser Val His Arg Ile Leu Pro
 1 5 10 15
 Gly Trp Trp Cys Ala Leu Leu Ala Thr Ala Pro Ser Leu Leu Ser Tyr
 20 25 30
 Arg Arg Arg Ser Arg Met Thr Leu Ser Ala Ala Gln Arg Ile Ser Cys
 35 40 45
 Asp Val Val Glu Thr His Ala Glu Val Ala Arg Ile Phe Asn Ile Gln
 50 55 60


```

Arg Tyr Ser Leu Asn Asp Gly Arg Gly Ile Arg Thr Val Val Phe Phe
65      70      75      80
Lys Gly Cys Pro His Arg Cys Pro Trp Cys Ala Asn Pro Glu Ser Ile
      85      90      95
Ser Pro Lys Ile Glu Thr Val Arg Arg Glu Ser Lys Cys Leu His Cys
      100      105      110
Ala Pro Cys Leu Arg Asp Val Asp Glu Cys Pro Ser Gly Ala Phe Glu
      115      120      125
Pro Ile Gly Arg Asp Val Thr Leu Glu Glu Leu Val Ser Glu Val Met
      130      135      140
Lys Asp Asp Val Phe Phe Arg Ser Ser Gly Gly Val Thr Leu Ser
145      150      155      160
Gly Gly Glu Val Leu Leu His Ala Pro Phe Ala Thr Lys Phe Leu Gln
      165      170      175
Gly Leu Arg Arg Phe Gly Val His Thr Ala Ile Glu Thr Ala Gly Asp
      180      185      190
Ala Pro Leu Ser Arg Leu Met Pro Leu Ala Arg Gln Cys Asp Glu Val
      195      200      205
Leu Phe Asp Leu Lys Ile Met Asp Ala Asp Leu Ala Gln Ser Ile Val
      210      215      220
Ala Met Asn Leu Pro Arg Val Leu Asp Asn Phe Arg Gln Leu Val Ala
225      230      235      240
Asp Gly Ile Asn Val Ile Pro Arg Val Pro Leu Ile Pro Gly Tyr Thr
      245      250      255
Leu Asn Glu Thr Asn Met Ala Arg Val Leu Ala Phe Leu Leu Pro Ser
      260      265      270
Gly Ile Arg Gln Leu His Leu Leu Pro Phe His Gln Tyr Gly Glu Pro
      275      280      285
Lys Tyr Arg Leu Leu Gly Gln Glu Trp Gly Met Arg Gln Ala Thr Pro
290      295      300
Pro Thr Glu Asp Glu Val Ser Ala Met Arg Gln Leu Ala Glu Arg Glu
305      310      315      320
Gly Phe Asn Val Thr Val Gly Gly
      325

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<210> 8814

<211> 630

<212> PRT

<213> Enterobacter cloacae

<400> 8814

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Gly Leu Arg His Pro Ser Tyr Ile Val Asp Ala Leu Thr Met Ile Lys
1      5      10      15
Lys Val Ser Leu Leu Thr Val Phe Ser Val Thr Ala Phe Ser Gly Trp
      20      25      30
Ala Gln Glu Ser Ala Asp Ser Leu Val Val Thr Ala Asn Arg Phe Glu
      35      40      45
Gln Pro Ala Lys Thr Val Leu Ala Pro Thr Ser Val Val Thr Arg Glu
      50      55      60
Asp Ile Glu Arg Trp Gln Ala Thr Ser Val Val Glu Ile Met Ser Arg
65      70      75      80
Leu Pro Gly Val Asp Ile Ala Gln Ser Gly Gly Met Gly Ser Thr Ser
      85      90      95
Ser Thr Phe Ile Arg Gly Thr Glu Ser Arg His Val Leu Val Leu Ile
      100      105      110
Asp Gly Ile Pro Leu Asn Asn Ala Gly Ile Ser Asn Val Pro Asp Leu
      115      120      125
Ser Gln Ile Pro Thr Ser Leu Ile Gln Arg Ile Glu Tyr Ile Arg Gly
      130      135      140
Pro Arg Ser Ala Leu Tyr Gly Ser Asp Ala Ile Gly Gly Val Ile Asn
145      150      155      160

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Ile Ile Thr Gly Arg Asp Lys Pro Gly Ala Glu Ile Ser Ala Gly Val
 165 170 175
 Gly Ser Lys Gly Tyr Gln Asn Tyr Asn Gly Ala Phe Gln Gln Val Phe
 180 185 190
 Asp Lys Thr Lys Ile Thr Met Ala Gly Asp Tyr Thr Tyr Thr Arg Gly
 195 200 205
 Phe Asp Ile Ala Ala Lys Asp Ala Pro Arg Gln Pro Asp Arg Asp Gly
 210 215 220
 Phe Met Ser Lys Ser Leu Phe Gly Ser Val Glu Gln Gln Phe Thr Asp
 225 230 235 240
 Ser Val Ser Gly Phe Val Arg Gly Phe Gly Tyr Asp Asn Arg Ser Ala
 245 250 255
 Tyr Asp Gly Tyr Asp His Tyr Gly Ala Thr Gly Ile Asp Gly Arg Pro
 260 265 270
 Asp Thr Arg Gln Val Tyr Ser Gln Asn Trp Asp Thr Gly Leu Arg Tyr
 275 280 285
 Asn Gln Gly Ile Phe Gln Ser Gln Leu Val Ala Gly Tyr Gly Arg Ser
 290 295 300
 Lys Asp Gln Asn Tyr Asp Pro Lys Lys Gly Arg Tyr Ala Asp Ser Ala
 305 310 315 320
 Thr Met Asp Asp Val Lys Gln Tyr Thr Thr Gln Trp Leu Asn Thr Val
 325 330 335
 Glu Val Gly His Gly Asn Ile Gly Ala Gly Leu Asp Trp Gln Lys Gln
 340 345 350
 Lys Thr Gln Ala Gly Thr Gly Tyr Leu Glu Lys Gly Tyr Glu Gln Arg
 355 360 365
 Asn Thr Gly Val Phe Leu Ser Ala Met Gln Gln Phe Asn Ser Val Thr
 370 375 380
 Leu Glu Ala Ala Ala Arg Asn Asp Asp Asn Ser Asn Phe Gly Asn His
 385 390 395 400
 Ala Thr Trp Gln Thr Ser Ala Ala Trp Glu Phe Ile Asp Gly Tyr Arg
 405 410 415
 Ile Ile Gly Ser Tyr Gly Thr Ala Tyr Lys Ala Pro Thr Met Ser Gln
 420 425 430
 Ile His Ser Lys Asp Tyr Gly Asn Pro Asp Leu Lys Pro Glu Glu Ser
 435 440 445
 Lys Gln Trp Glu Gly Gly Phe Glu Gly Leu Thr Gly Pro Val Asn Trp
 450 455 460
 Arg Val Thr Gly Tyr Arg Asn Asp Ile Asp Asn Leu Ile Asn Ser Asp
 465 470 475 480
 Pro Arg Thr Tyr Arg Tyr Tyr Asn Val Asp Glu Ala Arg Ile Lys Gly
 485 490 495
 Ile Glu Ala Thr Ala Gln Phe Asp Thr Gly Pro Val Gly His Gln Ile
 500 505 510
 Ser Tyr Asp Tyr Val Asp Pro Arg Asn Ala Lys Thr Asn Glu Val Leu
 515 520 525
 Ala Arg Arg Ser Lys Gln Gln Val Lys Tyr Gln Leu Asp Trp Gln Val
 530 535 540
 Trp Asp Leu Asp Trp Asn Leu Ala Tyr Arg Tyr Leu Gly Thr Arg Tyr
 545 550 555 560
 Asp Val Ala Val Asp Pro Asn Thr Tyr Ala Thr Glu Arg Val Lys Met
 565 570 575
 Gly Gly Val Ser Leu Trp Asp Val Ala Val Ser Tyr Pro Val Thr Ser
 580 585 590
 His Leu Thr Val Arg Gly Lys Ile Ala Asn Leu Phe Asp Lys Asp Tyr
 595 600 605
 Glu Thr Val Tyr Gly Tyr Gln Thr Ala Gly Arg Glu Tyr Thr Leu Ser
 610 615 620
 Gly Ser Tyr Thr Phe 630
 625

<210> 8815
 <211> 328
 <212> PRT
 <213> Enterobacter cloacae

<400> 8815

Arg	Gln	Ile	Phe	Leu	Ser	Arg	Val	Asn	Leu	Met	Thr	Thr	Gln	Arg	Leu
1				5					10					15	
Gln	Arg	Asp	Trp	Arg	Leu	Pro	Thr	Ala	Gly	Leu	Ala	Val	Leu	Val	Leu
		20						25					30		
Leu	Met	Ala	Gly	Phe	Ala	Leu	His	Glu	His	Trp	Asn	Ala	Phe	Ile	Gln
		35					40					45			
Trp	Cys	Leu	Ala	Thr	Gln	Ile	Thr	Leu	His	Arg	Tyr	Leu	Val	Met	Tyr
	50					55					60				
Leu	Leu	Gln	Leu	Asn	Asn	His	Gln	Tyr	Arg	Gly	Gly	Leu	Trp	Leu	Leu
65				70						75					80
Thr	Gly	Ala	Phe	Leu	Tyr	Gly	Val	Leu	His	Ala	Val	Gly	Pro	Gly	His
			85						90					95	
Gly	Lys	Phe	Ile	Val	Thr	Thr	Tyr	Leu	Thr	Thr	Asn	Lys	Glu	Ser	Gln
			100					105					110		
Leu	Ala	Ala	Arg	Val	Val	Pro	Phe	Ile	Gly	Ser	Leu	Met	Gln	Gly	Val
		115					120					125			
Ser	Ala	Ile	Ala	Phe	Val	Phe	Ile	Leu	Ala	Val	Gly	Leu	Asn	Leu	Ala
	130					135					140				
Ser	Gly	Asp	Ile	Ser	Thr	Ser	Arg	Trp	Tyr	Val	Glu	Lys	Ile	Ser	Ala
145					150					155					160
Leu	Leu	Ile	Ala	Ala	Phe	Gly	Ala	Phe	Ile	Ile	Tyr	Gln	Ala	Leu	Ser
			165					170						175	
Ser	Leu	Arg	Pro	Arg	Lys	Met	Ala	Ile	Ser	Ala	Ile	Lys	Pro	Leu	His
		180					185						190		
Gln	His	Asn	Glu	His	Cys	Gly	Cys	Gly	His	His	Gly	Val	Gly	Val	Asp
		195					200					205			
Leu	Ala	Lys	Ser	Asp	Trp	Lys	Thr	Arg	Leu	Gly	Val	Val	Leu	Ala	Ile
	210					215					220				
Gly	Ala	Arg	Pro	Cys	Ser	Gly	Ala	Ile	Met	Ile	Leu	Met	Phe	Ser	Asn
225					230					235					240
Ala	Leu	Gly	Ile	Ile	Ser	Trp	Gly	Ile	Ala	Ala	Val	Met	Thr	Met	Ser
			245					250						255	
Leu	Gly	Thr	Ala	Leu	Ser	Ile	Met	Gly	Leu	Ser	Leu	Ala	Val	Arg	Tyr
		260						265					270		
Ala	Arg	Glu	Arg	Thr	Val	Ala	Trp	Phe	Gly	Gly	Gly	Thr	Ser	Leu	Asn
	275					280						285			
Trp	Ile	Met	Pro	Met	Val	Lys	Ile	Ala	Gly	Gly	Val	Val	Leu	Ile	Leu
	290					295					300				
Phe	Ala	Thr	Val	Leu	Phe	Leu	Thr	Val	Ile	Pro	Val	Ser	Ala	Gly	Gly
305					310					315					320
Asp	Tyr	Ile	Ala	Ala	Gly	Cys									
				325											

<210> 8816
 <211> 334
 <212> PRT
 <213> Enterobacter cloacae

<400> 8816

Gly	Leu	Met	Met	Asn	Ile	Lys	Ala	Thr	Ile	Glu	Arg	Ile	Pro	Gly	Gly
1				5					10					15	
Met	Met	Leu	Val	Pro	Leu	Val	Leu	Gly	Ala	Ile	Leu	Asn	Thr	Leu	Ala
		20						25					30		
Pro	Asn	Thr	Gly	Ala	Tyr	Phe	Gly	Gly	Phe	Thr	Lys	Gly	Met	Ile	Thr
		35					40					45			

Gly Thr Val Pro Ile Leu Ala Val Trp Phe Phe Cys Ile Gly Ala Ser
 50 55 60
 Ile Asn Leu Arg Ala Thr Gly Thr Val Leu Arg Lys Ser Gly Thr Leu
 65 70 75 80
 Val Ile Thr Lys Ile Ala Val Ala Trp Val Val Ala Met Ile Cys Ala
 85 90 95
 Met Phe Ile Pro Glu Asn Gly Ile Gln Thr Gly Phe Phe Ala Gly Leu
 100 105 110
 Ser Val Leu Ala Ile Val Ser Ala Met Asp Met Thr Asn Gly Gly Leu
 115 120 125
 Tyr Ala Ser Leu Met Asn Gln Tyr Gly Thr Lys Glu Glu Ser Gly Ala
 130 135 140
 Phe Val Leu Met Ser Leu Glu Ser Gly Pro Leu Met Thr Met Leu Ile
 145 150 155 160
 Leu Gly Ser Ala Gly Leu Ala Ser Phe Glu Leu His His Phe Val Gly
 165 170 175
 Ala Ile Leu Pro Phe Leu Ile Gly Phe Ala Leu Gly Asn Leu Asp His
 180 185 190
 Asp Leu Arg Asp Phe Phe Ser Lys Ala Thr Pro Val Leu Ile Pro Phe
 195 200 205
 Phe Gly Phe Ala Leu Gly Asn Thr Ile Asn Leu Asn Val Ile Leu Glu
 210 215 220
 Thr Gly Leu Leu Gly Ile Val Leu Gly Val Ala Val Ile Val Ile Thr
 225 230 235 240
 Gly Ile Pro Leu Ile Ile Ala Asp Arg Val Ile Gly Gly Gly Asn Gly
 245 250 255
 Thr Ala Gly Val Ala Ala Ser Ser Ala Ala Gly Ala Ala Val Ala Asn
 260 265 270
 Pro Val Ile Ile Ala Gln Ile Asn Pro Ala Phe Glu Pro Val Ala Ala
 275 280 285
 Ser Ala Thr Ala Leu Val Ala Ala Ser Val Ile Val Thr Ala Ile Leu
 290 295 300
 Val Pro Ile Ile Thr Ala Leu Tyr Ala Arg Arg Phe Gly His Val Pro
 305 310 315 320
 Glu Ser Arg Thr Glu His Glu Ala Val Glu Met His His
 325 330

<210> 8817

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 8817

Val Arg Glu Lys Glu Leu Ile Val Pro Pro Gly Asp Ala Ser Leu Thr
 1 5 10 15
 Gly Arg Ser Gly Thr Thr Leu Asn Gly Leu Phe Leu Arg Glu Val Lys
 20 25 30
 Ile Met Pro Leu Ser Pro Tyr Ile Ser Phe Ala Gly Asn Cys Ala Glu
 35 40 45
 Ala Thr Ala Phe Tyr Gln Gln Ala Val Gly Ala Glu Leu Leu Tyr Lys
 50 55 60
 Ile Thr Phe Gly Glu Met Pro Lys Asp Glu Asn Ser Glu Glu Gly Cys
 65 70 75 80
 Pro Ser Gly Met Asn Phe Pro Asp Thr Ala Ile Ala His Ser Asn Val
 85 90 95
 Arg Ile Ala Gly Ser Asp Ile Met Met Ser Asp Gly Leu Pro Pro Gly
 100 105 110
 Ser Ser Thr Gln Tyr Ala Gly Phe Thr Leu Val Leu Asp Thr Gln Asp
 115 120 125
 Val Asp Glu Gly Lys Arg Trp Phe Asp Asn Leu Ser Asp Gly Gly Asn
 130 135 140

Val Glu Met Ala Trp Gln Glu Thr Phe Trp Ala His Gly Phe Gly Lys
 145 150 155 160
 Val Thr Asp Lys Tyr Gly Val Pro Trp Met Ile Asn Val Val Lys Ser
 165 170 175

<210> 8818

<211> 343

<212> PRT

<213> Enterobacter cloacae

<400> 8818

Arg Gly Met Glu Met Ser Tyr Lys Thr Val Ala Ala Leu Ala Phe Thr
 1 5 10 15
 Ser Met Phe Ser Ile Ser Thr Leu Leu Ser Pro Ala His Ala Glu Glu
 20 25 30
 Gln Glu Lys Ala Leu Asn Phe Gly Ile Ile Ser Thr Glu Ser Gln Gln
 35 40 45
 Asn Leu Lys Pro Gln Trp Glu Pro Phe Leu Lys Asp Met Glu Thr Lys
 50 55 60
 Leu Gly Ile Lys Val Asn Ala Phe Phe Ala Pro Asp Tyr Ala Gly Ile
 65 70 75 80
 Ile Gln Gly Met Arg Phe Asn Lys Val Asp Ile Ala Trp Tyr Gly Asn
 85 90 95
 Leu Ser Ala Met Glu Ala Val Asp Arg Ala Asn Gly Gln Val Phe Ala
 100 105 110
 Gln Thr Val Ala Ala Asp Gly Ser Pro Gly Tyr Trp Ser Val Leu Ile
 115 120 125
 Val Asn Lys Asp Ser Pro Ile Asn Asn Leu Asn Asp Met Leu Ala Lys
 130 135 140
 Arg Lys Glu Leu Thr Phe Gly Asn Gly Asp Pro Asn Ser Thr Ser Gly
 145 150 155 160
 Phe Leu Val Pro Gly Tyr Tyr Val Phe Ala Lys Asn Asn Val Ser Ala
 165 170 175
 Ser Asp Phe Lys Arg Thr Val Asn Ala Ser His Glu Thr Asn Ala Leu
 180 185 190
 Ala Val Ala Asn Lys Gln Val Asp Val Ala Thr Asn Asn Thr Glu Asn
 195 200 205
 Leu Asp Lys Leu Lys Thr Ser Ala Pro Asp Lys Leu Lys Glu Ile Lys
 210 215 220
 Val Ile Trp Lys Ser Pro Leu Ile Pro Gly Asp Pro Ile Val Trp Arg
 225 230 235 240
 Lys Asn Leu Ser Glu Asn Thr Lys Asp Lys Val Tyr Asp Phe Phe Met
 245 250 255
 Asn Tyr Gly Lys Thr Pro Glu Glu Lys Ala Val Leu Ala Arg Leu Gly
 260 265 270
 Trp Ala Pro Phe Arg Ala Ser Ser Asp Leu Gln Leu Val Pro Ile Arg
 275 280 285
 Gln Leu Ala Leu Phe Lys Gln Met Gln Gly Val Lys Asp Asn Lys Gly
 290 295 300
 Leu Lys Asp Glu Glu Lys Thr Ser Lys Val Ser Glu Ile Gln Ala Gln
 305 310 315 320
 Leu Asp Asp Leu Asp Arg Leu Thr Ala Ala Leu Gly Ala Met Thr Ser
 325 330 335
 Val Asn Lys Ala Val Gln
 340

<210> 8819

<211> 223

<212> PRT

<213> Enterobacter cloacae

<400> 8819

```

Pro Arg Arg Thr Pro Cys Arg Ala Ser Gly Arg Ser Lys Tyr Gln Pro
1      5      10      15
Gly Arg Leu Leu Tyr Ala Arg Ser Arg Arg Gln Arg Met Thr Leu Gln
20      25      30
Pro Ala Phe Thr Leu Ala Val Gln Asp Ala Gln Gln Ser Phe Arg Arg
35      40      45
Leu Leu Lys Ala Met Ser Glu Pro Gly Val Ile Val Ser Leu His Gln
50      55      60
Leu Ser Gln Gly Trp Leu Pro Leu Asn Leu Ala Ser Thr Ser Val Leu
65      70      75      80
Leu Thr Leu Ala Asp Asn Asp Thr Pro Val Trp Leu Ser Gly Ala Leu
85      90      95
Leu Asn Asp Ile Ala Ser Gln Asn Leu Arg Phe His Thr Asn Ala Pro
100     105     110
Leu Val Glu Gln Pro Gln Gln Ala Val Phe Ala Val Ala Asp Glu Gln
115     120     125
Ile Ser His Glu Gln Leu Asn Ala Leu Ser Glu Gly Ser Ala Val Ala
130     135     140
Pro Glu Thr Ser Ala Thr Leu Ile Leu Gln Val Ser Ser Leu Ser Gly
145     150     155     160
Gly Arg Met Leu Arg Leu Thr Gly Ala Gly Ile Ala Asp Glu Arg Met
165     170     175
Val Ala Pro Gln Leu Pro Glu Cys Ile Ile His Glu Leu Thr Glu Arg
180     185     190
Pro His Pro Phe Pro Leu Gly Ile Asp Leu Ile Leu Thr Cys Gly Glu
195     200     205
Arg Leu Leu Ala Ile Pro Arg Thr Thr His Val Glu Val Cys
210     215     220

```

<210> 8820

<211> 290

<212> PRT

<213> Enterobacter cloacae

<400> 8820

```

Asn Ala Cys Asn Gly Ser Ala Pro Met Ala Asn Leu Ser Gly Tyr Asn
1      5      10      15
Phe Ala Tyr Leu Asp Glu Gln Thr Lys Arg Met Ile Arg Arg Ala Ile
20      25      30
Leu Lys Ala Val Ala Ile Pro Gly Tyr Gln Val Pro Phe Gly Gly Arg
35      40      45
Glu Met Pro Met Pro Tyr Gly Trp Gly Thr Gly Gly Ile Gln Ile Thr
50      55      60
Ala Ser Val Ile Gly Glu Ala Asp Val Leu Lys Val Ile Asp Gln Gly
65      70      75      80
Ala Asp Asp Thr Thr Asn Ala Val Ser Ile Arg Asn Phe Phe Lys Arg
85      90      95
Val Thr Gly Val Asn Thr Thr Glu Lys Thr Glu Asp Ala Thr Leu Ile
100     105     110
Gln Thr Arg His Arg Ile Pro Glu Thr Pro Leu Thr Glu Asp Gln Ile
115     120     125
Leu Ile Phe Gln Val Pro Ile Pro Glu Pro Leu Arg Phe Ile Glu Pro
130     135     140
Arg Glu Thr Glu Thr Arg Thr Met His Ala Leu Glu Glu Tyr Gly Ile
145     150     155     160
Met Gln Val Lys Leu Tyr Glu Asp Ile Ala Arg Phe Gly His Ile Ala
165     170     175
Thr Thr Tyr Ala Tyr Pro Val Lys Val Asn Gly Arg Tyr Val Met Asp

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<210> 8821
<211> 216
<212> PRT
<213> Enterobacter cloacae
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```
<210> 8822
<211> 360
<212> PRT
<213> Enterobacter cloacae
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<400> 8822
 Thr Ala Arg Ala Arg His Leu Ser Gly Lys His His Asp Ala Gly Asn
 1 5 10 15
 Arg Arg Glu Arg His Thr Ser Ser Gly Val Ile Met Thr Pro
 20 25 30

```

Thr His Pro Gln Gln Val Ala Lys Ser Ala Ser Ala Lys Lys Met Leu
      35      40      45
Met Ser Asp Leu Met Gln Thr Ile Gly Ile Leu Pro Ile Leu Ile Leu
      50      55      60
Ile Val Ala Val Phe Gly Phe Ile Ala Pro Asn Phe Phe Thr Glu Ser
      65      70      75      80
Asn Leu Leu Asn Ile Thr Arg Gln Ala Ser Ile Asn Ile Val Leu Ala
      85      90      95
Ala Gly Met Thr Phe Ile Ile Leu Thr Gly Gly Ile Asp Leu Ser Val
      100      105      110
Gly Ser Ile Leu Gly Thr Thr Ala Val Ala Ala Met Val Val Ser Leu
      115      120      125
Ile Pro Glu Phe Ala Met Leu Ser Ile Pro Ala Ala Leu Met Leu Gly
      130      135      140
Met Val Leu Gly Leu Phe Asn Gly Ala Leu Val Ala Phe Ala Gly Leu
      145      150      155      160
Pro Pro Phe Ile Val Thr Leu Gly Thr Tyr Thr Ala Leu Arg Gly Ala
      165      170      175
Ala Tyr Leu Leu Ala Asp Gly Thr Thr Val Ile Asn Ser Asn Ile Asn
      180      185      190
Phe Glu Trp Ile Gly Asn Asn Tyr Leu Gly Pro Ile Pro Trp Leu Val
      195      200      205
Val Ile Ala Leu Ala Val Ile Val Val Cys Trp Phe Ile Leu Arg Arg
      210      215      220
Thr Thr Leu Gly Val His Ile Tyr Ala Val Gly Gly Asn Met Gln Ala
      225      230      235      240
Ala Arg Leu Thr Gly Ile Lys Val Trp Leu Val Leu Leu Phe Val Tyr
      245      250      255
Gly Met Ser Gly Leu Leu Ser Gly Leu Gly Gly Val Met Ser Ala Ser
      260      265      270
Arg Leu Tyr Ser Ala Asn Gly Asn Leu Gly Thr Gly Tyr Glu Leu Asp
      275      280      285
Ala Ile Ala Ala Val Ile Leu Gly Gly Thr Ser Phe Val Gly Gly Ile
      290      295      300
Gly Thr Ile Thr Gly Thr Leu Val Gly Ala Leu Ile Ile Ala Thr Leu
      305      310      315      320
Asn Asn Gly Met Thr Leu Met Gly Val Ser Tyr Phe Trp Gln Leu Val
      325      330      335
Ile Lys Gly Ala Val Ile Ile Ile Ala Val Leu Ile Asp Lys Tyr Arg
      340      345      350
Thr Arg His His Gln Ser Ala
      355      360

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<210> 8823

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 8823

```

Met Met Pro Leu Ile Ser Leu Ala Asp Gly Leu Ala His Ala Arg Glu
1      5      10      15
His Arg Tyr Ala Leu Gly Ala Phe Asn Val Leu Asp Ser His Phe Leu
      20      25      30
Arg Ala Leu Phe Ala Ala Ala Lys Gln Glu Arg Ser Pro Phe Ile Ile
      35      40      45
Asn Ile Ala Glu Val His Phe Lys Tyr Val Ser Leu Glu Ser Leu Val
      50      55      60
Glu Ala Val Lys Phe Glu Ala Ala Arg His Asp Ile Pro Val Val Leu
      65      70      75      80
Asn Leu Asp His Gly Leu His Phe Glu Ala Val Val Arg Ala Leu Arg
      85      90      95

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Leu Gly Phe Ser Ser Val Met Phe Asp Gly Ser Thr Leu Ser Tyr Glu
 100 105 110
 Glu Asn Ile Arg Gln Thr Arg Glu Val Val Lys Met Cys His Ala Val
 115 120 125
 Gly Val Ser Val Glu Ala Glu Leu Gly Ala Val Gly Gly Asp Glu Gly
 130 135 140
 Gly Ala Leu Tyr Gly His Ala Asp Glu Ala Phe Phe Thr Asp Pro Gln
 145 150 155 160
 Leu Ala Arg Glu Phe Val Asp Leu Thr Gly Ile Asp Ala Leu Ala Val
 165 170 175
 Ala Ile Gly Asn Ala His Gly Lys Tyr Lys Gly Glu Pro Lys Leu Asp
 180 185 190
 Phe Pro Arg Leu Asp Ala Ile Arg Gln Gln Thr Gly Leu Pro Leu Val
 195 200 205
 Leu His Gly Gly Ser Gly Ile Ser Asp Thr Asp Phe Arg Arg Ala Ile
 210 215 220
 Glu Leu Gly Ile His Lys Ile Asn Phe Tyr Thr Gly Met Ser Gln Ala
 225 230 235 240
 Ala Leu Ala Ala Val Glu Gln Arg Met Ala Asn Arg Gln Pro Leu Tyr
 245 250 255
 Asp Glu Phe Ala Glu Leu Leu Leu Gly Ile Glu Glu Ala Ile Thr Asp
 260 265 270
 Thr Val Ala Glu Gln Met Arg Ile Phe Gly Ser Ala Gly Gln Ala
 275 280 285

<210> 8824

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 8824

Glu Ser Met Lys Ile Leu Phe Leu Met Leu Leu Phe Leu Thr Ala Phe
 1 5 10 15
 Ala His Ala Asp Glu Ile Gly Ser Gln Tyr Lys Lys Gln Ala Glu Ala
 20 25 30
 Gly Asp Ala Arg Ala Gln Tyr Tyr Leu Ala Asp Thr Trp Phe Ser Ser
 35 40 45
 Gly Asp Ser Ala Gln Ala Ala Leu Trp Ala Glu Lys Ala Ala Lys Gly
 50 55 60
 Gly Asp Val Asp Ala Met Ala Leu Leu Ser Gln Ile His Phe Ser Gln
 65 70 75 80
 Gly Asp Tyr Ala Gln Ala Lys Ala Leu Ala Gln Gln Ala Asn Ile Ala
 85 90 95
 Gly Ser Lys Arg Gly Ala Ile Met Leu Ala Arg Val Leu Val Asn Thr
 100 105 110
 Gln Ala Gly Lys Thr Asp Tyr Pro Gln Ala Ile Ala Leu Leu Gln Ser
 115 120 125
 Ala Thr Glu Asp Ile Asp Ser Asp Ser Ala Val Asp Ala Gln Gln Leu
 130 135 140
 Leu Gly Leu Ile Tyr Ala Asn Gly Val Glu Val Pro Gln Asp Asp Val
 145 150 155 160
 Gln Ala Ala

<210> 8825

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 8825

Trp Phe Lys Arg Ser Ser Ala Leu Ser Arg Thr Gly Tyr Ala Glu Tyr

1				5					10				15
Trp	Ala	Gly	Met	Leu	Phe	Arg	Gln	Gly	Glu	Lys	Gly	Phe	Ile
			20					25				30	Thr
Asn	Lys	Gln	Lys	Ala	Leu	Tyr	Trp	Leu	Asn	Leu	Ser	Cys	Thr
		35					40					45	Glu
Phe	Asp	Thr	Gly	Cys	Glu	Glu	Phe	Asp	Ala	Leu	Ser	Gly	Glu
	50					55					60		

<210> 8826

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 8826

Gln	Phe	Val	Ser	Ser	Leu	Ala	His	Leu	Cys	Ala	Ile	Phe	Ile	Lys	Gln
1				5					10					15	
Tyr	His	Arg	Gln	Lys	Trp	Gly	Phe	Ala	Leu	Tyr	Ser	Leu	Pro	Phe	Ser
			20					25				30			
Ala	His	Cys	Arg	His	Leu	Ala	Gly	Val	Phe	Gln	Arg	Val	Asn	Thr	Phe
		35					40				45				
Glu	Asp	Thr	His	Met	Gln	Leu	Pro	His	Cys	Pro	Lys	Cys	Asn	Ser	Glu
	50					55					60				
Tyr	Thr	Tyr	Glu	Asp	Asn	Gly	Met	Phe	Val	Cys	Pro	Glu	Cys	Ala	His
65					70					75					80
Glu	Trp	Asn	Asp	Ala	Glu	Pro	Ala	Gln	Asp	Ser	Asp	Ala	Leu	Ile	Val
			85					90						95	
Lys	Asp	Ala	Asn	Gly	Asn	Leu	Leu	Ala	Asn	Gly	Asp	Ser	Val	Thr	Val
			100					105					110		
Val	Lys	Asp	Leu	Lys	Val	Lys	Gly	Ser	Ser	Ser	Met	Leu	Lys	Ile	Gly
		115					120					125			
Thr	Lys	Val	Lys	Asn	Ile	Arg	Leu	Val	Glu	Gly	Asp	His	Asn	Ile	Asp
		130				135					140				
Cys	Lys	Ile	Asp	Gly	Phe	Gly	Pro	Met	Lys	Leu	Lys	Ser	Glu	Phe	Val
145					150					155					160
Lys	Lys	Asn													

<210> 8827

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 8827

Ala	Leu	His	Leu	Arg	Ser	Glu	Ala	Leu	Ile	Gly	Met	His	Leu	Ser	Arg
1				5					10					15	
His	Pro	Thr	Ser	Tyr	Pro	Thr	Arg	Trp	Gln	Glu	Ile	Ala	Ala	Lys	Leu
			20					25					30		
Glu	Val	Glu	Leu	Arg	Thr	His	Tyr	Arg	Cys	Gly	Asp	Tyr	Leu	Pro	Ala
		35					40				45				
Glu	Gln	Gln	Leu	Ala	Asp	Arg	Tyr	Glu	Val	Asn	Arg	His	Thr	Leu	Arg
		50				55					60				
Arg	Ala	Ile	Asp	Gln	Leu	Val	Glu	Arg	Gly	Trp	Val	Gln	Arg	Arg	Gln
65					70					75					80
Gly	Val	Gly	Val	Leu	Val	Leu	Met	Arg	Pro	Phe	Asp	Tyr	Pro	Leu	Asn
			85					90						95	
Ala	Gln	Ala	Arg	Phe	Ser	Gln	Asn	Leu	Leu	Asp	Gln	Gly	Ser	His	Pro
			100					105					110		
Thr	Ser	Glu	Lys	Leu	Leu	Ser	Val	Leu	Arg	Pro	Ala	Ser	Arg	His	Val
		115					120					125			
Ala	Asp	Ala	Leu	Gly	Ile	Gln	Glu	Gly	Asp	Asn	Val	Val	His	Leu	Arg
	130					135					140				

Thr Leu Arg Arg Val Asn Gly Val Ala Val Cys Gln Ile Asp His Tyr
 145 150 155 160
 Phe Ala Asp Leu Thr Leu Trp Pro Val Leu Gln His Phe Ala Ser Gly
 165 170 175
 Ser Leu His Asp Phe Leu Gln Asp Ala Thr Gly Ile Val Leu Lys Arg
 180 185 190
 Thr Gln Thr Arg Ile Ser Ala Arg Arg Ala Gln Ala Lys Glu Ser Lys
 195 200 205
 Val Leu Glu Ile Pro Asn Met Ala Pro Leu Leu Cys Val Arg Thr Leu
 210 215 220
 Asn His Arg Asp Gly Asp Val Asn Ala Thr Glu Tyr Ser Val Ser Leu
 225 230 235 240
 Thr Arg Ala Asp Met Ile Glu Phe Thr Met Glu His
 245 250

<210> 8828

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 8828

Met His Phe Asp Thr Ser Thr Arg Gln Arg Trp Met Arg Val Leu Ala
 1 5 10 15
 His Ser Gln Pro Ala Ala Leu Ala Ala Arg Met Asn Ala Leu Gly Leu
 20 25 30
 Thr Pro Asp Tyr Asp Thr Ile Arg Ala Pro Glu Ile Gly Leu Val Gln
 35 40 45
 Ile Gln Ala Arg Met Gly Gly Thr Gly Glu Arg Phe Phe Ala Gly Asp
 50 55 60
 Ala Thr Leu Thr Arg Ala Val Ile Arg Leu Lys Ser Gly Thr Leu Gly
 65 70 75 80
 Tyr Gly Tyr Val Leu Gly Arg Asp Lys Thr His Ala Glu Arg Cys Ala
 85 90 95
 Ala Ile Asp Ala Leu Leu Gln Glu Gln Pro His Phe Gln Thr Leu Met
 100 105 110
 Glu Thr Leu Ile Ala Pro Leu Glu Ala Asp Arg Ala Ala Arg Leu Ala
 115 120 125
 Ala Arg Gln Ala Glu Val Asn Thr Ser Arg Val Asp Phe Phe Thr Leu
 130 135 140
 Val Arg Gly Asp Asn Ala
 145 150

<210> 8829

<211> 422

<212> PRT

<213> Enterobacter cloacae

<400> 8829

Lys Gln Arg Ser Gly Asp Arg Thr Asp Arg Thr Gly Gln Ser Ala Arg
 1 5 10 15
 Arg Gly Asp Arg Arg Asp Leu Pro Arg Arg Arg Arg Thr Pro Ser Arg
 20 25 30
 Gly Gly Gln Thr Ala Pro Asp Gly Asp Lys Arg Met Ile Ile Asn Asn
 35 40 45
 Val Arg Leu Val Leu Glu Asn Glu Val Val Asn Gly Ser Val Glu Val
 50 55 60
 Arg Asp Gly Val Ile Arg Ala Phe Ala Glu Thr Gln Ser Arg Ser Pro
 65 70 75 80
 Asp Ala Met Asp Gly Glu Gly Gly Trp Leu Leu Pro Gly Leu Ile Glu
 85 90 95
 Leu His Thr Asp Asn Leu Asp Lys Phe Phe Thr Pro Arg Pro Lys Val

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<210> 8830
<211> 258
<212> PRT
<213> Enterobacter cloacae
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<400> 8830															
Ala	Gly	Met	Pro	Thr	Val	Thr	Thr	Met	Ala	Ser	Ala	Ser	Arg	Ser	Thr
1				5				10					15		
Ser	Gly	Cys	Thr	Arg	Ala	Leu	Thr	Cys	Trp	Ser	Thr	Ala	Arg	Gly	Arg
			20					25					30		
Ile	Ser	Arg	Arg	Leu	Ala	Pro	Gly	Thr	Lys	Arg	Arg	Cys	Ser	Arg	Ser
		35					40					45			
Val	Cys	Arg	Phe	Pro	Arg	Thr	Phe	Cys	Val	Ala	Gly	Cys	Lys	Ser	Gly
	50					55					60				
Gly	Ala	Lys	Thr	Arg	Ala	Arg	Ser	Thr	Ser	Gly	Trp	Asn	Gly	Arg	Arg
65				70						75				80	
Val	Thr	Pro	Arg	Arg	Val	Ala	Ile	Ser	Ser	Ile	Thr	Thr	Glu	Val	Cys
				85					90					95	
Tyr	Ser	Gln	Ser	Arg	Pro	Phe	Tyr	Pro	Leu	Ser	Ala	Arg	Arg	Arg	Asn

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<210> 8831
<211> 256
<212> PRT
<213> Enterobacter cloacae
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<400>	8831														
Arg	Gly	Val	Met	Ser	Leu	Thr	Ile	Thr	Leu	Thr	Gly	Thr	Gly	Gly	Ala
1				5					10					15	
Gln	Leu	Val	Pro	Val	Phe	Gly	Cys	Asp	Cys	Ala	Ala	Cys	Arg	Arg	Ala
			20					25					30		
Arg	Leu	Gln	Glu	Asn	Tyr	Arg	Arg	Arg	Pro	Cys	Ser	Ala	Ala	Val	Lys
		35					40					45			
Phe	Asn	Asp	Ala	Val	Thr	Leu	Leu	Asp	Ala	Gly	Ile	Pro	His	Leu	Met
	50					55					60				
Asp	Asp	Trp	Pro	Ala	Gly	Ser	Phe	Arg	Gln	Phe	Leu	Leu	Thr	His	Tyr
65					70					75					80
His	Met	Asp	His	Val	Gln	Gly	Leu	Phe	Pro	Leu	Arg	Trp	Gly	Val	Gly
				85					90					95	
Ala	Thr	Ile	Pro	Val	Tyr	Gly	Pro	Pro	Asp	Asp	Ala	Gly	Cys	Asp	Asp
			100					105					110		
Leu	Leu	Lys	His	Pro	Gly	Leu	Leu	Asp	Phe	Ser	His	Thr	Val	Glu	Pro
		115					120					125			
Phe	Val	Thr	Phe	Glu	Leu	Gln	Gly	Leu	Arg	Val	Thr	Pro	Leu	Pro	Leu
	130					135					140				
Asn	His	Ser	Lys	Leu	Thr	Phe	Gly	Tyr	Leu	Leu	Glu	Ser	Ala	His	Ser
145					150					155					160
Arg	Val	Ala	Trp	Leu	Ser	Asp	Thr	Ala	Gly	Leu	Pro	Asp	Lys	Thr	Val
				165					170					175	
Thr	Phe	Leu	Leu	Asn	Asn	Gln	Pro	Gln	Ala	Met	Ile	Val	Asp	Cys	Ser
			180					185					190		
His	Glu	Pro	Arg	Pro	Glu	Thr	Pro	Arg	Asn	His	Cys	Asp	Leu	Asn	Thr
		195					200					205			
Val	Val	Ala	Leu	Asn	Glu	Val	Ile	Gly	Cys	Pro	Gln	Val	Ile	Leu	Thr
	210					215					220				
His	Ile	Ser	His	Gln	Phe	Asp	Val	Trp	Met	Met	Asp	Asn	Pro	Leu	Pro
225					230					235					240
Ser	Gly	Ile	Glu	Ala	Gly	Tyr	Asp	Gly	Met	Val	Met	Val	Leu	Asp	
				245					250					255	

<210> 8832
 <211> 516
 <212> PRT
 <213> Enterobacter cloacae

<400> 8832

Ser	Ala	Asp	Ile	Asp	Ile	His	Arg	Arg	Ser	Ala	Met	Ser	Arg	Thr	Pro
1				5					10					15	
Val	Leu	Glu	Met	Arg	His	Ile	Ala	Lys	Thr	Phe	Gly	Asn	Phe	His	Ala
			20					25				30			
Leu	Lys	Gly	Val	Asp	Leu	Thr	Val	Phe	Pro	Gly	Glu	Ile	His	Ala	Leu
		35					40				45				
Met	Gly	Glu	Asn	Gly	Ala	Gly	Lys	Ser	Thr	Leu	Met	Lys	Ile	Leu	Ala
	50					55				60					
Gly	Ala	Tyr	Thr	Ala	Ser	Ser	Gly	Asp	Ile	Leu	Ile	Asp	Gly	Gln	Pro
65				70					75					80	
Phe	His	Ile	Lys	Gly	Pro	Lys	Asp	Ala	Leu	Ala	Ala	Gly	Ile	Thr	Leu
			85					90					95		
Ile	Tyr	Gln	Glu	Met	Gln	Leu	Ala	Pro	Asn	Leu	Thr	Val	Ala	Glu	Asn
		100					105					110			
Ile	Phe	Leu	Gly	Ser	Glu	Leu	Ser	Arg	Gly	Gly	Leu	Val	Gln	Arg	Lys
		115				120					125				
Glu	Met	Ala	Ala	Gln	Ala	Gln	Ala	Val	Ile	Asp	Arg	Leu	Gly	Ala	Gln
	130					135				140					
Phe	Ser	Ala	Thr	Asp	Leu	Val	Met	Lys	Leu	Thr	Ile	Ala	Glu	Gln	Gln
145				150					155					160	
Gln	Val	Glu	Ile	Ala	Arg	Ala	Leu	His	Arg	Asn	Ser	Arg	Ile	Leu	Val
			165				170						175		
Met	Asp	Glu	Pro	Thr	Ala	Ala	Leu	Ser	Ser	Arg	Glu	Thr	His	Arg	Leu
		180					185					190			
Phe	Glu	Leu	Ile	Leu	Arg	Leu	Arg	Asp	Glu	Gly	Met	Ala	Ile	Ile	Tyr
		195				200					205				
Ile	Ser	His	Arg	Met	Ala	Glu	Val	Tyr	Glu	Leu	Ser	Asp	Arg	Val	Ser
	210			215					220						
Val	Leu	Arg	Asp	Gly	Gln	Tyr	Val	Gly	Ser	Leu	Thr	Arg	Asp	Lys	Leu
225				230					235					240	
Asn	Ala	Ser	Glu	Leu	Val	Arg	Met	Met	Val	Gly	Arg	Pro	Leu	Ser	Asp
			245					250					255		
Leu	Phe	Asn	Lys	Glu	Arg	Asp	Ile	Pro	Leu	Gly	Ser	Pro	Arg	Leu	Asn
		260					265					270			
Val	His	His	Leu	Thr	Asp	Gly	Lys	Lys	Val	Gln	Pro	Cys	Ser	Leu	Gln
		275				280					285				
Val	Arg	Ser	Gly	Glu	Ile	Val	Gly	Leu	Ala	Gly	Leu	Val	Gly	Ala	Gly
	290				295				300						
Arg	Ser	Glu	Leu	Ala	Gln	Leu	Ile	Phe	Gly	Val	Arg	Lys	Ala	Thr	Gly
305				310				315						320	
Gly	Met	Ile	Glu	Val	Asp	Gly	Glu	Pro	Val	Val	Ile	His	Ser	Pro	Arg
			325					330					335		
Ala	Ala	Ile	Glu	Asn	Gly	Ile	Gly	Phe	Leu	Thr	Glu	Asn	Arg	Lys	Glu
		340				345						350			
Gln	Gly	Leu	Phe	Leu	Glu	Leu	Ala	Ala	Gln	Glu	Asn	Ile	Thr	Met	Ala
		355				360					365				
Thr	Leu	Glu	Arg	Asp	Ala	Thr	Phe	Gly	Trp	Leu	Asn	Arg	Lys	Lys	Ala
	370				375					380					
Gln	Ser	Ile	Ser	Asp	Asp	Ala	Ile	Ala	Leu	Leu	Asn	Ile	Arg	Val	Pro
385				390					395					400	
His	Ser	Gln	Val	Arg	Ala	Gly	Gly	Leu	Ser	Gly	Gly	Asn	Gln	Gln	Lys
			405					410					415		
Leu	Leu	Ile	Ser	Arg	Trp	Val	Ala	Ile	Gly	Pro	Arg	Ile	Leu	Ile	Leu
		420				425						430			
Asp	Glu	Pro	Thr	Arg	Gly	Val	Asp	Val	Gly	Ala	Lys	Ser	Glu	Ile	Tyr

435	440	445
Arg Ile Met Asn Gln Met	Ala Arg Lys Gly Val	Ala Ile Leu Met Ile
450	455	460
Ser Ser Glu Leu Pro Glu	Val Val Gly Met Ser	Asp Arg Val Tyr Val
465	470	475
Met Arg Glu Gly Ser Ile	Ala Gly Glu Leu His	Gly Arg Asp Ile Ser
	485	490
Gln Glu Asn Ile Met Thr	Leu Ala Thr Gly	Val Asn Asp Thr His His
	500	505
Gln Ala Val		510
515		

<210> 8833

<211> 336

<212> PRT

<213> Enterobacter cloacae

<400> 8833

Ser Thr Asn Thr Val Pro Asp Thr Ile Lys Val His Asn Asn Asn Thr	
1 5 10 15	
Leu Arg Glu Glu Tyr Ser Met Arg Leu Lys Pro Leu Val Thr Ala Leu	
20 25 30	
Cys Ala Gly Ala Leu Leu Ala Ala Thr Pro Phe Ala Gln Ala Lys Asp	
35 40 45	
Leu Lys Ser Ile Gly Val Thr Val Gly Asp Leu Ala Asn Pro Phe Phe	
50 55 60	
Val Gln Ile Thr Lys Gly Ala Glu Leu Glu Ala Arg Lys Leu Ala Gly	
65 70 75 80	
Asp Asn Val Lys Val Thr Leu Val Ser Ser Gly Tyr Asp Leu Gly Gln	
85 90 95	
Gln Val Ser Gln Ile Asp Asn Phe Ile Ala Ala Lys Val Asp Met Ile	
100 105 110	
Ile Leu Asn Ala Ala Asp Ser Lys Gly Ile Gly Pro Ala Val Lys Arg	
115 120 125	
Ala Lys Glu Ala Gly Ile Val Val Val Ala Val Asp Val Ala Ala Glu	
130 135 140	
Gly Ala Asp Ala Thr Ile Thr Ser Asp Asn Thr Gln Ala Gly Glu Met	
145 150 155 160	
Ala Cys Lys Tyr Ile Thr Asp Arg Leu Lys Gly Lys Gly Asn Val Val	
165 170 175	
Ile Ile Asn Gly Pro Pro Val Ser Ala Val Gln Asn Arg Val Glu Gly	
180 185 190	
Cys Gln Thr Glu Phe Arg Arg His Pro Asp Ile Lys Val Leu Ser Asp	
195 200 205	
Asn Gln Asn Ala Lys Gly Ser Arg Glu Gly Gly Leu Glu Val Met Thr	
210 215 220	
Ser Leu Leu Ala Ala Asn Pro Lys Ile Asp Gly Val Phe Ala Ile Asn	
225 230 235 240	
Asp Pro Thr Ala Ile Gly Ala Asp Leu Ala Ala Lys Gln Ala Gln Arg	
245 250 255	
Asn Glu Phe Phe Ile Val Gly Val Asp Gly Ser Pro Asp Gly Glu Glu	
260 265 270	
Ala Leu Lys Arg Glu Asn Ser Leu Phe Val Ala Thr Pro Ala Gln Asp	
275 280 285	
Pro Gln Val Met Ala Ala Lys Ala Val Glu Ile Gly Tyr Asp Ile Leu	
290 295 300	
Gln Gly Lys Pro Ala Pro Lys Glu Pro Val Leu Ile Pro Val Thr Met	
305 310 315 320	
Ile Asp Lys Lys Asn Val Gly Thr Tyr Lys Gly Trp Thr Val Lys	
325 330 335	

<210> 8834
 <211> 272
 <212> PRT
 <213> Enterobacter cloacae

<400> 8834

Gly	His	Ile	Tyr	Arg	Glu	Ala	Gly	His	Met	Gln	Thr	Val	Ile	Arg	Val
1				5					10					15	
Glu	Lys	Leu	Ser	Lys	Thr	Phe	His	His	Asn	Lys	Ala	Leu	His	Ala	Val
			20					25					30		
Asp	Leu	Thr	Val	Gln	Gln	Gly	Glu	Met	Val	Ala	Leu	Leu	Gly	Pro	Ser
		35					40					45			
Gly	Ser	Gly	Lys	Ser	Thr	Leu	Leu	Arg	His	Leu	Ser	Gly	Leu	Ile	Thr
	50					55					60				
Cys	Asp	Lys	Thr	Pro	Glu	Ser	Arg	Val	Glu	Leu	Leu	Gly	Asn	Thr	Val
65					70				75					80	
Gln	His	Ala	Gly	Arg	Leu	Ala	Ser	Asp	Ile	Arg	Lys	Ser	Arg	Ala	Gln
				85					90					95	
Thr	Gly	Tyr	Ile	Phe	Gln	Gln	Phe	Asn	Leu	Val	Asn	Arg	Leu	Thr	Val
			100					105					110		
Leu	Glu	Asn	Val	Leu	Ile	Gly	Ala	Leu	Gly	Ser	Thr	Pro	Phe	Trp	Arg
		115						120					125		
Thr	Cys	Leu	Arg	Trp	Phe	Ser	Leu	Ser	Gln	Lys	Gln	Glu	Ala	Leu	Gln
	130					135						140			
Ala	Leu	Thr	Arg	Val	Gly	Met	Ala	His	Phe	Ala	His	Gln	Arg	Val	Ser
145					150					155				160	
Thr	Leu	Ser	Gly	Gly	Gln	Gln	Gln	Arg	Val	Ala	Ile	Ala	Arg	Ala	Leu
				165					170					175	
Met	Gln	Lys	Ala	Lys	Ile	Ile	Leu	Ala	Asp	Glu	Pro	Ile	Ala	Ser	Leu
			180					185					190		
Asp	Pro	Glu	Ser	Ala	Arg	Ile	Val	Met	Glu	Thr	Leu	Arg	Asp	Ile	Asn
		195					200					205			
Gln	Asn	Asp	Gly	Ile	Thr	Val	Val	Val	Thr	Leu	His	Gln	Val	Asp	Tyr
	210					215					220				
Ala	Leu	Arg	Tyr	Cys	Glu	Arg	Ile	Val	Ala	Leu	Arg	Gln	Gly	His	Val
225					230					235				240	
Phe	Phe	Asp	Gly	Ala	Ser	His	Gln	Phe	Asp	Asn	Glu	Arg	Phe	Asp	His
				245					250					255	
Leu	Tyr	Arg	Ser	Val	Asn	Arg	Val	Glu	Glu	Arg	Ala	Gln	Ala	Ala	
			260					265					270		

<210> 8835
 <211> 282
 <212> PRT
 <213> Enterobacter cloacae

<400> 8835

Ser	Gly	Ala	Val	Thr	Pro	Phe	Ser	Leu	Ser	Leu	Lys	Gly	Glu	Gly	Thr
1				5					10					15	
Lys	Pro	Lys	Gly	Ala	Asn	Met	Gln	Thr	Ile	Thr	Leu	Pro	Pro	Pro	Lys
			20					25					30		
Arg	Ser	Trp	Phe	Ser	Leu	Ile	Ser	Trp	Ala	Val	Leu	Leu	Ala	Val	Leu
		35					40					45			
Val	Ile	Ser	Trp	Lys	Gly	Ala	Glu	Met	Asp	Pro	Leu	Leu	Leu	Phe	Arg
	50					55					60				
Asp	Ser	Gly	Asn	Met	Ala	Thr	Phe	Ala	Ala	Asp	Phe	Phe	Pro	Pro	Asp
65					70					75				80	
Phe	Ser	Gln	Trp	Gln	Asp	Tyr	Leu	Val	Glu	Met	Ala	Ile	Thr	Leu	Gln
				85					90					95	
Ile	Ala	Val	Trp	Gly	Thr	Ala	Leu	Ser	Val	Ile	Leu	Ser	Ile	Pro	Phe
			100					105					110		

Gly	Leu	Met	Ser	Ala	Glu	Asn	Ile	Val	Pro	Trp	Trp	Val	Tyr	Gln	Pro
		115					120					125			
Met	Arg	Arg	Leu	Met	Asp	Ala	Cys	Arg	Ala	Ile	Asn	Glu	Met	Val	Phe
	130					135					140				
Ala	Met	Leu	Phe	Val	Val	Ala	Val	Gly	Leu	Gly	Pro	Phe	Ala	Gly	Val
145					150					155					160
Met	Ala	Leu	Phe	Ile	His	Thr	Thr	Gly	Val	Leu	Ser	Lys	Leu	Leu	Ser
				165					170					175	
Glu	Ala	Val	Glu	Ala	Ile	Glu	Pro	Gly	Pro	Val	Glu	Gly	Ile	Arg	Ala
		180						185					190		
Thr	Gly	Ala	Asn	Lys	Ile	Glu	Glu	Ile	Leu	Tyr	Gly	Val	Leu	Pro	Gln
	195						200					205			
Val	Met	Pro	Leu	Leu	Ile	Ser	Tyr	Ser	Leu	Tyr	Arg	Phe	Glu	Ser	Asn
	210					215					220				
Val	Arg	Ser	Ala	Thr	Val	Val	Gly	Met	Val	Gly	Ala	Gly	Gly	Ile	Gly
225					230					235					240
Val	Thr	Leu	Trp	Glu	Ala	Ile	Arg	Gly	Phe	Gln	Phe	Gln	Gln	Thr	Cys
				245					250					255	
Ala	Leu	Met	Val	Leu	Ile	Ile	Val	Thr	Val	Ser	Leu	Leu	Asp	Phe	Leu
			260					265					270		
Ser	Gln	Arg	Leu	Arg	Lys	His	Phe	Ile							
		275					280								

<210> 8836

<211> 390

<212> PRT

<213> Enterobacter cloacae

<400> 8836

Ala	Asp	Arg	Ala	Pro	Ala	Ser	Val	Pro	Ala	Arg	Tyr	Arg	Pro	Asp	Pro
1				5					10					15	
Asp	Leu	Arg	Arg	Ala	Pro	Ala	Gly	Asp	Pro	Glu	Asn	His	Ser	Arg	Gly
			20					25					30		
Gly	Val	Leu	Met	Tyr	Val	Ala	Val	Lys	Gly	Gly	Glu	Lys	Ala	Ile	Ala
		35					40					45			
Ala	Ala	His	Ala	Leu	Gln	Glu	His	Arg	Arg	Arg	Gly	Asp	Asp	Ala	Leu
	50					55					60				
Pro	Glu	Leu	Ser	Val	Ala	Gln	Ile	Glu	Gln	Gln	Leu	Asn	Leu	Ala	Val
65					70					75					80
Asp	Arg	Val	Met	Thr	Glu	Gly	Gly	Ile	Ala	Asp	Arg	Glu	Leu	Ala	Ala
				85					90					95	
Leu	Ala	Leu	Lys	Gln	Ala	Ser	Gly	Asp	Asn	Val	Glu	Ala	Ile	Phe	Leu
			100					105					110		
Leu	Arg	Ala	Tyr	Arg	Thr	Thr	Leu	Ala	Lys	Leu	Ala	Val	Ser	Glu	Pro
	115						120					125			
Val	Lys	Thr	Ala	Glu	Met	Arg	Leu	Glu	Arg	Arg	Ile	Ser	Ala	Val	Tyr
	130					135					140				
Lys	Asp	Ile	Pro	Gly	Gly	Gln	Leu	Leu	Gly	Pro	Thr	Tyr	Asp	Tyr	Thr
145					150					155					160
His	Arg	Leu	Leu	Asp	Phe	Thr	Leu	Leu	Ala	Asn	Gly	Glu	Thr	Pro	Gln
				165					170					175	
Leu	Ser	Val	Ser	Asp	Ala	Glu	Gln	Asp	Ala	Ser	Pro	His	Val	Phe	Ser
			180					185					190		
Leu	Leu	Ala	Asn	Gln	Gly	Leu	Ala	Lys	Ala	Glu	Glu	Asp	Thr	Gly	Ser
	195						200					205			
Thr	Pro	Asp	Asp	Ile	Thr	Arg	Thr	Pro	Pro	Val	Tyr	Pro	Cys	Ser	Arg
	210					215					220				
Ser	Ser	Arg	Leu	Gln	Gln	Leu	Met	Arg	Gly	Asp	Glu	Gly	Tyr	Leu	Leu
225					230					235					240
Ala	Leu	Ala	Tyr	Ser	Thr	Gln	Arg	Gly	Tyr	Gly	Arg	Asn	His	Pro	Phe
				245					250					255	

Ala Ala Glu Ile Arg Ser Gly Tyr Leu Asp Val Glu Ile Val Pro Glu
 260 265 270
 Glu Leu Gly Phe Ala Val Asn Ile Gly Glu Leu Leu Met Thr Glu Cys
 275 280 285
 Glu Met Val Asn Gly Phe Val Ala Pro Glu Asn Glu Asp Pro His Phe
 290 295 300
 Thr Arg Gly Tyr Gly Leu Val Tyr Gly Leu Ser Glu Arg Lys Ala Met
 305 310 315 320
 Ala Met Ala Leu Val Asp Arg Ala Leu Gln Ala Pro Asp Tyr Gly Glu
 325 330 335
 His Ile Ala Gly Pro Ala Gln Asp Glu Glu Phe Val Leu Ala His Ala
 340 345 350
 Asp Asn Val Glu Ala Ala Gly Phe Val Ser His Leu Lys Leu Pro His
 355 360 365
 Tyr Val Asp Phe Gln Ala Glu Leu Glu Leu Leu Lys Arg Leu Gln Arg
 370 375 380
 Glu Arg Ala Asn Gly
 385 390

<210> 8837

<211> 280

<212> PRT

<213> Enterobacter cloacae

<400> 8837

Ser Gly Ala Gly Arg His Gly Gln Thr Asp Val Cys Leu Leu Arg His
 1 5 10 15
 Arg Leu Leu Pro Pro Thr Glu Arg Gly Glu Gln Pro Met Lys Pro Leu
 20 25 30
 Leu Ser Val Asn Asn Leu Thr His Leu Tyr Ala Pro Gly Lys Gly Phe
 35 40 45
 Ser Asp Val Ser Phe Glu Leu Trp Pro Gly Glu Val Leu Gly Ile Val
 50 55 60
 Gly Glu Ser Gly Ser Gly Lys Thr Thr Leu Leu Lys Ser Ile Ser Ala
 65 70 75 80
 Arg Leu Thr Pro Gln Asn Gly Asp Ile Leu Tyr Glu Gly Val Ser Leu
 85 90 95
 Tyr Gly Met Ser Glu Ala Glu Arg Arg Arg Leu Leu Arg Thr Glu Trp
 100 105 110
 Gly Val Val His Gln His Pro Met Asp Gly Leu Arg Arg Gln Val Ser
 115 120 125
 Ala Gly Gly Asn Ile Gly Glu Arg Leu Met Ala Thr Gly Ala Arg His
 130 135 140
 Tyr Gly Asn Ile Arg Ala Thr Ala Gln His Trp Leu Glu Glu Val Glu
 145 150 155 160
 Ile Pro Ala Ser Arg Ile Asp Asp Leu Pro Thr Thr Phe Ser Gly Gly
 165 170 175
 Met Gln Gln Arg Leu Gln Ile Ala Arg Asn Leu Val Thr His Pro Lys
 180 185 190
 Leu Val Phe Met Asp Glu Pro Thr Gly Gly Leu Asp Val Ser Val Gln
 195 200 205
 Ala Arg Leu Leu Asp Leu Leu Arg Gly Leu Val Val Glu Leu Asn Leu
 210 215 220
 Ala Val Val Ile Val Thr His Asp Leu Gly Val Ala Arg Leu Leu Ala
 225 230 235 240
 Asp Arg Leu Leu Val Met Lys Gln Gly Gln Val Val Glu Ser Gly Leu
 245 250 255
 Thr Asp Arg Val Leu Asp Asp Pro His His Pro Tyr Thr Gln Leu Leu
 260 265 270
 Val Ser Ser Val Leu Gln Asn
 275 280

<210> 8838
 <211> 230
 <212> PRT
 <213> Enterobacter cloacae

<400> 8838

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Glu Ala Asn Met Ile His Val Glu Asn Val Ser Lys Thr Phe Val Leu
1          5          10          15
His Gln Gln Asn Gly Val Arg Leu Pro Val Leu Gln Asn Ala Ser Leu
20          25          30
Glu Val Ser Asn Gly Glu Cys Val Val Leu His Gly His Ser Gly Ser
35          40          45
Gly Lys Ser Thr Leu Leu Arg Ser Leu Tyr Ala Asn Tyr Leu Pro Asp
50          55          60
Glu Gly His Ile His Ile Arg His Asn Asn Glu Trp Val Asp Leu Val
65          70          75          80
Gln Ala Pro Ala Arg Lys Val Leu Glu Val Arg Arg Ser Thr Ile Gly
85          90          95
Trp Val Ser Gln Phe Leu Arg Val Ile Pro Arg Ile Ser Ala Leu Asp
100         105         110
Val Val Met Gln Pro Leu Leu Asp Leu Gly Val Pro Arg Glu Thr Cys
115         120         125
Ala Ala Lys Ala Ala Ser Leu Leu Thr Arg Leu Asn Val Pro Glu Arg
130         135         140
Leu Trp His Leu Ala Pro Ser Thr Phe Ser Gly Gly Glu Gln Gln Arg
145         150         155         160
Val Asn Ile Ala Arg Gly Phe Ile Val Asp Tyr Pro Ile Leu Leu Leu
165         170         175
Asp Glu Pro Thr Ala Ser Leu Asp Ser Lys Asn Ser Ala Ala Val Ile
180         185         190
Glu Leu Ile Glu Gln Ala Lys Ala Arg Gly Ala Ala Ile Val Gly Ile
195         200         205
Phe His Asp Asp Ala Val Arg His Arg Val Ala Asp Arg Leu His Pro
210         215         220
Met Gly Thr Asn Val
225          230

```

<210> 8839
 <211> 361
 <212> PRT
 <213> Enterobacter cloacae

<400> 8839

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Arg Gly His Tyr Arg Tyr Gly Cys Gly Thr Asp Ala His Leu Arg Gln
1          5          10          15
Arg Gly Ala Gly Ile Met Glu Arg Lys Gly Ile Ile Ala Ala Gly Asn
20          25          30
Met Leu Val Asp His Val His Gln Ile Val Gln Trp Pro Glu Arg Gly
35          40          45
Trp Leu Ala Glu Ile Thr His Ser Glu Arg Ser Thr Gly Gly Ala Pro
50          55          60
Leu Asn Val Leu Leu Thr Leu Ala Lys Met His Val Gly Leu Pro Leu
65          70          75          80
Gln Ala Val Gly Leu Ile Gly Glu Asp Ser Asp Gly Asp Tyr Ile Leu
85          90          95
Ala Met Leu Asp Gln Tyr His Val Asn Arg Gln Arg Val Gln Arg Thr
100         105         110
Thr Phe Ala Pro Thr Ser Met Ser Gln Val Met Thr Asp Pro Ser Gly
115         120         125
Gln Arg Thr Phe Phe His Ser Pro Gly Ala Asn Arg Leu Leu Asp Leu

```

130	135	140
Pro Ala Phe Asp Arg Leu	Asp Gly Ser Leu Lys	Ile Phe His Leu Gly
145	150	155
Tyr Leu Leu Leu Leu Asp	Ser Leu Asp Met Pro	Asp Glu Glu Phe Gly
	165	170
Thr Arg Ser Ala Arg Leu	Leu Ala Gln Met Arg	Asp Gln Gly Tyr Glu
	180	185
Thr Ser Leu Asp Leu Val	Ser Arg Lys Gly Asp	Pro Arg Tyr Gln Pro
	195	200
Leu Val Leu Pro Ala Leu	Arg His Leu Asp Tyr	Leu Val Ile Asn Glu
	210	215
Leu Glu Ala Gly Glu Phe	Ser Gly Leu Glu Ile	Arg Asp Gly His Asp
225	230	235
Ala Leu Asn Met Ala His	Ile Ala Asp Ala Thr	Gln Leu Leu Ala
	245	250
Ala Gly Val Arg Gln Arg	Val Val Ile His Cys	Pro Glu Gly Ala Trp
	260	265
Gly Glu Ala Pro Gly Glu	Lys Gly Gln Trp Val	Pro Ser Trp Lys Leu
	275	280
Thr Gln Asp Glu Ile Ile	Gly Ser Val Gly Ala	Gly Asp Ala Phe Cys
	290	295
Ala Gly Phe Leu Tyr Gly	Cys His Glu Ser Leu	Pro Leu Thr Glu Ser
305	310	315
Ile Tyr Leu Ala His Ala	Cys Ala Arg Ala Ser	Leu Leu Ala Ala Asn
	325	330
Ala Ile Asp Gly Ala Lys	Thr Leu Ala Glu Leu	Gln Thr Phe Ile Gln
	340	345
Glu Asn Gly Gln Ala Ala	Phe Ser	
	355	360

<210> 8840

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 8840

Glu Leu Phe Asn Trp Ser Lys Val Met Lys Lys Val Val Thr Val Cys
1 5 10 15
Pro Tyr Cys Ala Ser Gly Cys Lys Ile His Leu Val Val Asp Asn Gly
20 25 30
Lys Ile Val Arg Ala Glu Ala Ala Gln Gly Lys Thr Asn Gln Gly Thr
35 40 45
Leu Cys Leu Lys Gly Tyr Tyr Gly Trp Asp Phe Ile Asn Asp Thr Gln
50 55 60
Ile Leu Thr Pro Arg Leu Lys Thr Pro Met Ile Arg Arg Glu Arg Gly
65 70 75 80
Gly Lys Leu Glu Ala Val Ser Trp Asn Glu Ala Leu Asp Tyr Val Ala
85 90 95
Thr Arg Leu Ser Ala Ile Lys Ala Lys Tyr Gly Pro Asp Ala Ile Gln
100 105 110
Thr Thr Gly Ser Ser Arg Gly Thr Gly Asn Glu Thr Asn Tyr Val Met
115 120 125
Gln Lys Phe Ala Arg Ala Val Ile Gly Thr Asn Asn Val Asp Cys Cys
130 135 140
Ala Arg Val
145

<210> 8841

<211> 576

<212> PRT

<213> Enterobacter cloacae

<400> 8841

His	Gly	Pro	Ser	Val	Ala	Gly	Leu	His	Gln	Ser	Val	Gly	Asn	Gly	Ala
1				5					10					15	
Met	Ser	Asn	Ala	Ile	Asn	Glu	Ile	Asp	Asn	Thr	Asp	Leu	Val	Phe	Ile
		20						25					30		
Phe	Gly	Tyr	Asn	Pro	Ala	Asp	Ser	His	Pro	Ile	Val	Ala	Asn	His	Val
		35					40					45			
Ile	Arg	Ala	Lys	Gln	Asn	Gly	Ala	Lys	Ile	Ile	Val	Cys	Asp	Pro	Arg
		50				55					60				
Lys	Ile	Glu	Thr	Ala	Arg	Ile	Ala	Asp	Met	His	Ile	Ala	Leu	Lys	Asn
65					70					75					80
Gly	Ser	Asn	Ile	Ala	Leu	Leu	Asn	Ala	Met	Gly	His	Val	Ile	Ile	Glu
				85					90					95	
Glu	Asn	Leu	Tyr	Asp	Gln	Ala	Phe	Val	Ala	Ser	Arg	Thr	Glu	Gly	Phe
			100					105					110		
Glu	Glu	Tyr	Arg	Lys	Ile	Val	Glu	Gly	Tyr	Thr	Pro	Glu	Ser	Val	Glu
		115					120					125			
Ala	Ile	Thr	Gly	Val	Ser	Ala	Gln	Glu	Ile	Arg	Gln	Ala	Ala	Arg	Met
		130				135					140				
Tyr	Ala	Gly	Ala	Lys	Thr	Ala	Ala	Ile	Leu	Trp	Gly	Met	Gly	Val	Thr
145					150					155					160
Gln	Phe	Tyr	Gln	Gly	Val	Glu	Thr	Val	Arg	Ser	Leu	Thr	Ser	Leu	Ala
			165						170					175	
Met	Leu	Thr	Gly	Asn	Leu	Gly	Lys	Ala	His	Val	Gly	Val	Asn	Pro	Val
			180					185					190		
Arg	Gly	Gln	Asn	Asn	Val	Gln	Gly	Ala	Cys	Asp	Met	Gly	Ala	Leu	Pro
		195					200					205			
Asp	Thr	Tyr	Pro	Gly	Tyr	Gln	Tyr	Val	Lys	Phe	Pro	Glu	Asn	Arg	Glu
		210				215					220				
Lys	Phe	Ala	Lys	Ala	Trp	Gly	Val	Glu	Ser	Leu	Pro	Ala	His	Thr	Gly
225					230					235					240
Tyr	Arg	Ile	Ser	Glu	Leu	Pro	His	Arg	Ala	Ala	His	Gly	Glu	Val	Arg
			245						250					255	
Ala	Ala	Tyr	Ile	Met	Gly	Glu	Asp	Pro	Leu	Gln	Thr	Asp	Ala	Glu	Leu
			260				265						270		
Ser	Ala	Val	Arg	Lys	Gly	Phe	Glu	Asp	Leu	Glu	Leu	Val	Ile	Val	Gln
		275					280					285			
Asp	Ile	Phe	Met	Thr	Lys	Thr	Ala	Ala	Ala	Ala	Asp	Val	Ile	Leu	Pro
		290				295					300				
Ser	Thr	Ser	Trp	Gly	Glu	His	Glu	Gly	Val	Tyr	Thr	Ala	Ala	Asp	Arg
305					310					315					320
Gly	Phe	Gln	Arg	Phe	Phe	Lys	Ala	Val	Glu	Pro	Lys	Trp	Asp	Leu	Lys
			325						330					335	
Thr	Asp	Trp	Gln	Ile	Ile	Ser	Glu	Ile	Ala	Thr	Arg	Met	Gly	Tyr	Pro
			340					345					350		
Met	His	Tyr	Asn	Asn	Thr	Gln	Glu	Ile	Trp	Asp	Glu	Leu	Arg	His	Leu
		355					360					365			
Cys	Pro	Asp	Phe	Tyr	Gly	Ala	Thr	Tyr	Glu	Lys	Met	Gly	Glu	Leu	Gly
		370				375					380				
Tyr	Ile	Gln	Trp	Pro	Cys	Arg	Asp	Glu	Ser	Glu	Ser	Asp	Gln	Gly	Thr
385					390					395					400
Ser	Phe	Leu	Phe	Lys	Glu	Lys	Phe	Asp	Thr	Pro	Asn	Gly	Leu	Ala	Gln
			405						410					415	
Phe	Phe	Thr	Cys	Asp	Trp	Val	Ala	Pro	Ile	Asp	Lys	Leu	Thr	Asp	Glu
			420					425					430		
Tyr	Pro	Met	Val	Leu	Ser	Thr	Val	Arg	Glu	Val	Gly	His	Tyr	Ser	Cys
		435					440					445			
Arg	Ser	Met	Thr	Gly	Asn	Cys	Ala	Ala	Leu	Ala	Ala	Leu	Ala	Asp	Glu
		450				455					460				
Pro	Gly	Tyr	Ala	Gln	Ile	Asn	Thr	Ala	Asp	Ala	Glu	Arg	Leu	Gly	Ile

465					470					475				480
Glu	Asp	Glu	Ala	Leu	Val	Trp	Val	Asn	Ser	Arg	Lys	Gly	Arg	Ile
				485					490					495
Thr	Arg	Ala	Gln	Val	Ser	Asp	Arg	Pro	Asn	Lys	Gly	Ala	Val	Tyr
			500					505					510	Met
Thr	Tyr	Gln	Trp	Trp	Ile	Gly	Ala	Cys	Asn	Glu	Leu	Val	Thr	Glu
		515				520						525		Asn
Leu	Ser	Pro	Ile	Thr	Lys	Thr	Pro	Glu	Tyr	Lys	Tyr	Cys	Ala	Val
		530				535					540			Asn
Val	Glu	Pro	Ile	Ala	Asp	Gln	His	Ala	Ala	Glu	Gln	Tyr	Val	Ile
545					550					555				Asp
Glu	Tyr	Asn	Lys	Leu	Lys	Ala	Arg	Leu	Arg	Glu	Ser	Ala	Met	Gly
				565					570					575

<210> 8842

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 8842

Asp	Val	Leu	Leu	Ser	Ser	Arg	Leu	Val	Lys	Thr	Arg	Ile	Leu	Asp	Met
1			5						10					15	
Ala	Arg	Thr	Ala	Leu	Asn	Val	Val	Gly	Asn	Ala	Leu	Ala	Val	Leu	Val
			20					25					30		
Ile	Ala	Lys	Trp	Glu	His	Lys	Phe	Asp	Arg	Lys	Lys	Ala	Leu	Ala	Tyr
		35					40					45			
Glu	Arg	Glu	Val	Leu	Gly	Arg	Phe	Asp	Lys	Thr	Ala	Asp	Gln		
		50				55					60				

<210> 8843

<211> 770

<212> PRT

<213> Enterobacter cloacae

<400> 8843

Gly	His	Gln	Thr	Ala	Glu	Glu	Pro	Lys	Pro	Met	Pro	Ser	Arg	Pro	Pro
1				5					10					15	
Phe	Phe	Thr	Ser	Ala	Arg	Gly	Arg	Leu	Leu	Ile	Phe	Asn	Leu	Leu	Val
			20					25					30		
Val	Ala	Val	Thr	Leu	Met	Val	Ser	Gly	Val	Ala	Val	Leu	Gly	Phe	Arg
		35					40					45			
His	Ala	Ser	Gln	Ile	Gln	Glu	Gln	Val	Gln	Gln	Gln	Thr	Leu	Asp	Asp
		50				55					60				
Met	Thr	Gly	Ser	Met	Asn	Leu	Ala	Arg	Asp	Thr	Ala	Asn	Val	Ala	Thr
65					70				75					80	
Ala	Ala	Val	Arg	Leu	Ser	Gln	Val	Val	Gly	Ala	Leu	Glu	Tyr	Lys	Gly
			85						90					95	
Glu	Ala	Glu	Arg	Leu	Lys	Gln	Thr	Gln	Met	Ala	Leu	Arg	His	Ser	Leu
			100					105					110		
Glu	Gln	Leu	Ala	Asp	Ala	Pro	Leu	Ala	Gln	Gln	Glu	Pro	Ala	Leu	Val
		115					120					125			
Thr	Arg	Ile	Ile	Arg	Arg	Ser	Asn	Glu	Leu	Gln	Gln	Ser	Val	Thr	Gly
		130				135						140			
Met	Leu	Glu	Arg	Gly	Gln	Lys	Arg	His	Leu	Glu	Arg	Asn	Ala	Leu	Leu
145					150				155					160	
Ser	Ala	Leu	Tyr	Gln	Ser	Gln	Ser	Tyr	Leu	Arg	His	Leu	Gln	Asp	Ile
			165						170					175	
Asn	Arg	Arg	Tyr	Ala	Ser	Asn	Val	Pro	Asp	Ala	Arg	Gln	Leu	Ala	Glu
			180					185					190		
Met	Asp	Arg	Leu	Ile	Val	Ala	Ala	Ile	Asp	Thr	Pro	Ser	Pro	Arg	Ala
		195					200					205			

Thr	Val	Gln	Gln	Leu	Asp	Ala	Val	Thr	Ala	Met	Leu	Pro	Ala	Ser	Ala
	210					215					220				
Leu	Gln	Pro	Val	Val	Asn	Leu	Val	Leu	Pro	Asp	Phe	Asn	Asp	Glu	Leu
225					230					235					240
Arg	Lys	Leu	Ala	Pro	Leu	Ser	Lys	Gln	Leu	Glu	Glu	Ser	Asp	Leu	Ser
				245					250					255	
Ile	Ser	Trp	Tyr	Met	Phe	His	Ile	Lys	Ala	Leu	Val	Ala	Ile	Leu	Asn
			260				265						270		
Arg	Asp	Ile	Asn	Gln	Tyr	Val	Glu	Gln	Val	Ala	Gln	Ala	Ser	Arg	Leu
	275						280					285			
Arg	Thr	Ala	Gln	Ser	His	Gln	Glu	Leu	Arg	Ser	Ile	Ser	Val	Phe	Ile
	290					295					300				
Ser	Val	Phe	Ala	Val	Leu	Ala	Leu	Ile	Ile	Thr	Gly	Cys	Ala	Cys	Trp
305					310					315					320
Tyr	Ile	Tyr	Arg	Asn	Leu	Gly	Ser	Asn	Leu	Thr	Ala	Ile	Ser	Arg	Ala
				325					330					335	
Met	Ser	Arg	Leu	Ala	His	Gly	Glu	Gln	Asn	Val	Ser	Val	Pro	Ala	Leu
			340					345					350		
Gln	Arg	Arg	Asp	Glu	Leu	Gly	Glu	Leu	Ala	Arg	Ala	Phe	Asn	Val	Phe
		355					360					365			
Ala	Arg	Asn	Thr	Ala	Ser	Leu	Glu	His	Thr	Thr	Arg	Leu	Leu	Lys	Glu
	370					375					380				
Lys	Thr	Ser	Gln	Met	Glu	Val	Asp	Arg	Ile	Glu	Arg	Gln	Gly	Leu	Glu
385					390					395					400
Glu	Ala	Leu	Leu	His	Ser	Gln	Lys	Met	Lys	Ala	Val	Gly	Gln	Leu	Thr
				405					410					415	
Gly	Gly	Leu	Ala	His	Asp	Phe	Asn	Asn	Leu	Leu	Ala	Val	Ile	Ile	Gly
			420					425					430		
Ser	Leu	Glu	Leu	Thr	Asp	Ser	Ala	Ser	Pro	Asp	Ala	Pro	Arg	Ile	Thr
		435					440					445			
Arg	Ala	Leu	Lys	Ala	Ala	Glu	Arg	Gly	Ala	Met	Leu	Thr	Gln	Arg	Leu
	450					455					460				
Leu	Ala	Phe	Ser	Arg	Lys	Gln	Ser	Leu	Gln	Pro	His	Ala	Val	Glu	Met
465					470					475					480
Lys	Pro	Leu	Leu	Glu	Asn	Leu	Ser	Glu	Leu	Met	Arg	His	Ser	Leu	Pro
				485					490					495	
Ala	Thr	Leu	Thr	Leu	Asp	Ile	Glu	Ala	Gln	Thr	Pro	Ala	Trp	Pro	Ala
			500					505					510		
Trp	Ile	Asp	Val	Ser	Gln	Leu	Glu	Asn	Ala	Ile	Ile	Asn	Leu	Val	Met
		515					520					525			
Asn	Ala	Arg	Asp	Ala	Met	Glu	Gly	Gln	Asn	Gly	Val	Ile	Lys	Ile	Arg
	530					535					540				
Thr	Trp	Asn	Gln	Arg	Val	Thr	Arg	Ser	Asp	Gly	Arg	Arg	Gln	Asp	Met
545					550					555					560
Val	Ala	Leu	Glu	Val	Ile	Asp	His	Gly	Cys	Gly	Met	Ser	Gln	Glu	Val
				565					570					575	
Lys	Ser	Gln	Val	Phe	Glu	Pro	Phe	Phe	Thr	Thr	Lys	Gln	Thr	Gly	Ser
			580					585					590		
Gly	Ser	Gly	Leu	Gly	Leu	Ser	Met	Val	Tyr	Gly	Phe	Val	Arg	Gln	Ser
		595					600					605			
Gly	Gly	Arg	Val	Glu	Ile	Glu	Ser	Ala	Pro	Gly	Gln	Gly	Thr	Thr	Val
	610					615					620				
Arg	Leu	Gln	Leu	Pro	Arg	Ser	Thr	Leu	Pro	Ala	Phe	Ser	Asn	Asp	Ala
625					630					635					640
Ala	Leu	Ala	Thr	Thr	Ala	Pro	Thr	Glu	Ser	Glu	Leu	Leu	Val	Leu	Val
				645					650					655	
Leu	Glu	Asp	Glu	Ala	Gly	Val	Arg	Gln	Thr	Leu	Cys	Glu	Gln	Leu	His
			660					665					670		
Gln	Leu	Gly	Tyr	Leu	Thr	Leu	Glu	Ala	Glu	Asn	Gly	Glu	Gln	Ala	Leu
		675					680					685			
Asn	Met	Leu	Asp	Ala	Ser	Pro	Asp	Ile	Gly	Met	Phe	Ile	Ser	Asp	Leu

690 695 700
 Met Leu Pro Gly Gly Leu Ser Gly Ala Glu Val Ile Gly His Val Arg
 705 710 715
 Ser His Tyr Pro Gln Leu Pro Val Leu Leu Ile Ser Gly Gln Asp Leu
 725 730 735
 Arg Pro Ala His Asn Pro Gln Leu Pro Asp Val Gln Leu Leu Arg Lys
 740 745 750
 Pro Phe Thr Arg Ala Gln Leu Ala Gln Ala Leu Arg Lys Val Met Val
 755 760 765
 Ile
 770

<210> 8844

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 8844

Met Met His Ser Gly Ser Trp Gly Ala Thr Ile Arg Ser Ser Ala Ile
 1 5 10 15
 Pro Ala Pro Val Arg Arg Ser Met Arg Pro Pro Leu Arg Leu Glu Thr
 20 25 30
 Cys Lys Ile Ser Val Ala Leu Val Ser Gly Ala Thr Ala Leu Pro Ser
 35 40 45
 Leu Arg Ala Leu Ser Cys Ser Trp Leu Ile Cys Ser Ser Ala Thr Ala
 50 55 60
 Lys Thr Ala Cys Trp Gly Cys Ser Thr Ser Gly Ala Leu Val
 65 70 75

<210> 8845

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 8845

Leu Ile Ser Ile Pro Arg Tyr Gly Ser Leu Cys Ser Leu Arg Ala Leu
 1 5 10 15
 Phe Asp Ala Val Tyr Ala Ala Val Glu Met Val Lys Thr Phe Val Ile
 20 25 30
 Lys Leu Val Ala Cys Ala Ile Lys Glu His Met Ser Leu Thr Gln Gly
 35 40 45
 Asp Asp Ala Leu Ala Val Ala Gln Gly Val Ile His Leu Met Gln Arg
 50 55 60
 His His His Gly Asp Ala Val Val Leu Ile Asp Val Ala Gln Gly Phe
 65 70 75 80
 His His Asp Ala Gly Leu Arg Ile Gln Arg Gly Asp Arg Phe Ile
 85 90 95
 Gly Gln Asp Asn Phe Gly Phe Leu His Gln Gly Ala Gly Asn Gly Asp
 100 105 110
 Ala Leu Leu Leu Ser Ala Gly Glu Arg Gly Asp Ala Leu Val Gly Glu
 115 120 125
 Met Arg His Ala Asp Ala Gly Gln Arg Leu
 130 135

<210> 8846

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 8846

Tyr Ser Asn Leu Ile Arg Gly Arg Ala Thr Met Thr Thr Gln Leu Leu

1				5					10				15				
Asp	Gly	Pro	Gly	Arg	Thr	Leu	Glu	Cys	Ile	His	Pro	Lys	Phe	Met	Val		
			20					25					30				
Asp	Leu	Val	Gln	Gly	Ala	Asp	Ala	Arg	His	Ala	Leu	Gly	Pro				
		35					40					45					
Gln	Gln	Leu	Gln	Phe	Arg	Glu	Arg	Leu	Thr	Gln	Glu	Ile	Ile	Thr	Gln		
	50					55				60							
Thr	Arg	Leu	Arg	Pro	Trp	Ala	Met	Ala	Gly	Met	Leu	Asn	Glu	Asn	Ala		
65				70					75					80			
Ala	Leu	Arg	Leu	Gly	Leu	Ala	Glu	Lys	Leu	Ala	Gly	Met	Leu	Asp	Pro		
			85					90					95				
Gly	His	Leu	Ala	Leu	Thr	Arg	Met	Ser	Asp	Arg	Leu	Val	Ala	Leu	Arg		
		100						105					110				
Gln	Gln	Val	Asn	Pro	Arg	Leu	Pro	Gln	Pro	Pro	Gly	Leu	Leu	Gln	Gln		
		115					120					125					
Tyr	Glu	Glu	Leu	Ser	Ala	His	Phe	Asn	Gln	Arg	Ala	Ala	Tyr	Lys	Glu		
	130					135					140						
Lys	Ala	Leu	Ala	Gln	Arg	Gly	Leu	Thr	Val	Gln	Ala	Gly	Glu	His	Ser		
145				150					155					160			
Glu	Gln	Ile	Phe	Thr	Arg	Trp	Arg	Ala	Gly	Gln	Tyr	Asp	Gly	Trp	Ser		
			165					170						175			
Leu	Ala	Gly	Arg	Cys	Phe	Ile	Val	Leu	Glu	Glu	Leu	Arg	Trp	Gly	Ala		
		180					185						190				
Phe	Gly	Asp	Ala	Cys	Arg	Leu	Ala	Asn	Ser	Asp	Val	Ala	Ala	Met	Leu		
	195					200					205						
Lys	Asp	Asn	Leu	Arg	Ser	Met	Ala	Ala	Asn	Tyr	Leu	Ala	Gln	Glu	Ile		
	210				215					220							
Asn	Ala	Ser	Pro	Thr	Thr	Arg	His	Phe	Tyr	His	Gln	Trp	Leu	Thr	Thr		
225				230					235					240			
Pro	Ala	Ser	Pro	Gly	Leu	Ile	Asp	Tyr	Lys	Asp	Met	Leu	Gly	Trp	Leu		
			245					250					255				
Gly	Asp	Trp	Cys	Gln	Ala	Glu	Lys	His	Pro	Val	Ser	Trp	Ser	Val	Thr		
		260					265					270					
Gln	Ser	Trp	Gln	Thr	Val	Ala	Leu	Gly	Met	Pro	Arg	Leu	Cys	Ser	Ala		
		275				280						285					
Lys	Arg	Leu	Val	Asp	Gly	Met	Val	Glu	Glu	Ile	Phe	Gly	Thr				
	290					295					300						

<210> 8847

<211> 529

<212> PRT

<213> Enterobacter cloacae

<400> 8847

Gly	Asp	Ser	His	Gly	Ala	Asp	Leu	Trp	Phe	Thr	Ala	Cys	Lys	Met	Arg		
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Cys	Glu	Thr	Asp	Gly	Ala	Glu	Ser	Thr	Arg	Lys	Ala	Met	Leu	Arg	Arg		
		20						25				30					
Lys	Lys	Val	Lys	Pro	Ile	Thr	Leu	Arg	Asp	Val	Thr	Ile	Ile	Asp	Asp		
		35					40				45						
Ala	Lys	Leu	Arg	Lys	Ala	Ile	Thr	Ala	Ala	Ser	Leu	Gly	Asn	Ala	Met		
	50					55				60							
Glu	Trp	Phe	Asp	Phe	Gly	Val	Tyr	Gly	Phe	Val	Ala	Tyr	Ala	Leu	Gly		
65				70					75				80				
Lys	Val	Phe	Phe	Pro	Gly	Ala	Asp	Pro	Ser	Leu	Gln	Met	Ile	Ala	Ala		
			85					90					95				
Leu	Gly	Thr	Phe	Ser	Val	Pro	Phe	Leu	Ile	Arg	Pro	Leu	Gly	Gly	Leu		
		100						105				110					
Phe	Phe	Gly	Met	Leu	Gly	Asp	Lys	Tyr	Gly	Arg	Gln	Lys	Ile	Leu	Ala		
		115				120					125						
Ile	Thr	Ile	Val	Ile	Met	Ser	Ile	Ser	Thr	Phe	Cys	Ile	Gly	Leu	Ile		

130	135	140
Pro Ser Tyr Ala Thr Ile Gly Ile Trp Ala Pro Ile Leu Leu Leu Ile		
145	150	155
Cys Lys Met Ala Gln Gly Phe Ser Val Gly Gly Glu Tyr Thr Gly Ala		
	165	170
Ser Ile Phe Val Ala Glu Tyr Ser Pro Asp Arg Lys Arg Gly Phe Met		
	180	185
Gly Ser Trp Leu Asp Phe Gly Ser Ile Ala Gly Phe Val Met Gly Ala		
	195	200
Gly Val Val Val Leu Ile Ser Thr Val Val Gly Glu Glu Asn Phe Leu		
	210	215
Asp Trp Gly Trp Arg Ile Pro Phe Phe Leu Ala Leu Pro Leu Gly Ile		
225	230	235
Ile Gly Leu Tyr Leu Arg His Ala Leu Glu Glu Thr Pro Ala Phe Gln		
	245	250
Gln His Val Glu Lys Leu Glu Gln Gly Asp Arg Glu Gly Leu Gln Asp		
	260	265
Gly Pro Lys Val Ser Phe Lys Glu Ile Ala Thr Lys His Trp Arg Ser		
	275	280
Leu Leu Thr Cys Ile Gly Leu Val Ile Ser Thr Asn Val Thr Tyr Tyr		
290	295	300
Met Leu Leu Thr Tyr Met Pro Ser Tyr Leu Ser His Asn Leu His Tyr		
305	310	315
Ser Glu Asp His Gly Val Leu Ile Ile Ile Ala Ile Met Val Gly Met		
	325	330
Leu Phe Val Gln Pro Ile Met Gly Leu Leu Ser Asp Arg Phe Gly Arg		
	340	345
Lys Pro Phe Ile Ile Leu Gly Ser Val Ala Leu Phe Ala Leu Ala Ile		
	355	360
Pro Ala Phe Ile Leu Ile Asn Ser Asn Val Leu Gly Leu Ile Phe Ala		
	370	375
Gly Leu Leu Met Leu Ala Val Ile Leu Asn Cys Phe Ile Gly Val Met		
385	390	395
Val Ser Thr Leu Pro Ala Met Phe Pro Thr His Ile Arg Tyr Ser Ala		
	405	410
Leu Ala Ala Ala Phe Asn Ile Ser Val Leu Ile Ala Gly Leu Thr Pro		
	420	425
Thr Leu Ala Ala Ser Leu Val Glu Ser Thr Gln Asn Leu Met Met Pro		
	435	440
Ala Tyr Tyr Leu Met Val Ile Ala Val Val Gly Leu Ile Thr Gly Ile		
	450	455
Thr Met Lys Glu Thr Ala Asn Arg Pro Leu Lys Gly Ala Thr Pro Ala		
465	470	475
Ala Ser Asp Ile Gln Glu Ala Lys Glu Ile Leu Arg Glu His Tyr Asp		
	485	490
Asn Val Glu Gln Lys Ile Glu Asp Ile Asp Ala Glu Ile Glu Ala Leu		
	500	505
Gln Lys Lys Arg Ser Arg Leu Val Asp Gln His Pro Arg Ile Asn Glu		
	515	520
		525

<210> 8848

<211> 248

<212> PRT

<213> Enterobacter cloacae

<400> 8848

Arg Lys His Ala Met Lys Pro Ala Ile Leu Val Val Asp Asp Asp Val
1 5 10 15
Ala Val Cys Glu Leu Leu Gln Asp Val Leu Ser Glu His Val Phe Thr

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<211> 80
<212> PRT
<213> Enterobacter cloacae
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<210> 8850
<211> 341
<212> PRT
<213> Enterobacter cloacae
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<400> 8850
Lys Arg Val Asp Arg Cys Ala Ala Leu Gly Val Arg Phe Val Ala Ala
1      5      10      15
Lys Tyr Val Ala Val Ala Gln Arg Ala Ala Phe Gln Ala Asp His Arg
20      25      30
Ala Gly Glu Gly Gly Ile Ala Gly Glu Glu Ala Leu Ala Gly Ala Ala
35      40      45
His Ala Cys Leu Asp Leu His Gln Ala Asp Leu Arg Arg Ala Asp Arg
50      55      60

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Val	Val	Ile	Arg	Arg	Gln	Ala	Glu	Arg	Val	His	Ala	Gly	Ser	Gln	Arg
65					70					75					80
Ser	Arg	Leu	Ala	Val	Gly	Gln	His	Ala	His	Pro	Ala	Leu	Thr	Ser	Gly
				85					90					95	
Gly	Val	Glu	Val	His	Ser	Val	Leu	His	Gly	Lys	Phe	Asn	His	Val	Gly
			100					105					110		
Ala	Gly	Gln	Ala	Asp	Gly	Val	Phe	Arg	Cys	Val	Asp	Val	Ala	Val	Thr
		115					120					125			
Val	Val	Glu	Gly	Ala	His	Ala	Glu	Gln	Arg	Gly	His	Val	Gly	Asp	Leu
	130					135					140				
Gln	His	Leu	Ala	Leu	Phe	Arg	Leu	Arg	Ala	Ala	Gly	Ala	Asp	Ala	Arg
145					150					155					160
Leu	Gly	Ala	Phe	Glu	His	Asp	Thr	Arg	Arg	Val	Leu	Lys	Lys	Ile	Met
			165						170					175	
Gln	Gly	Thr	Ala	Gly	Glu	Met	Leu	Gln	Asn	Gly	Pro	Glu	Gly	Glu	Val
			180					185					190		
Arg	Glu	Val	Val	Val	Asp	Leu	Thr	Asp	Arg	His	Ala	Val	His	Pro	Ala
		195					200					205			
Gln	Arg	Ala	Gln	Val	Asn	Asp	Val	Val	Ala	Leu	Leu	Asn	Pro	Gln	Arg
	210					215					220				
Val	Arg	His	Val	Ala	Gly	Arg	Ala	Gln	Asp	Arg	Gln	Gln	Leu	Phe	
225					230				235					240	
Ala	Gly	Gly	Val	Ala	Ala	Leu	Ile	Glu	Lys	Val	Leu	Ala	Lys	Thr	Arg
			245					250						255	
Leu	Gly	Ile	Lys	Arg	Val	Val	Lys	Arg	Thr	His	Gln	His	Gln	His	Ala
		260					265						270		
Asp	Ala	Leu	Thr	Thr	Leu	Asp	Pro	Ala	Ala	Leu	His	Gln	Leu	Ile	Asp
		275					280					285			
Gly	Thr	Thr	Gln	Gly	Val	Thr	Ile	His	Phe	Val	Ala	Val	Gly	Lys	Leu
	290					295					300				
Leu	Leu	Gly	Arg	Gln	Val	Val	Ser	Ala	Ala	Ile	Val	Arg	Ala	Gln	Leu
				310						315					320
His	Phe	Glu	Leu	Cys	Arg	Asn	Leu	Leu	Pro	Ala	Gly	Gly	Val	Thr	Gly
				325					330					335	
Arg	Met	Ser	Gly												
			340												

<210> 8851

<211> 790

<212> PRT

<213> Enterobacter cloacae

<400> 8851

Gly	Lys	Ala	Phe	Ile	Met	His	Thr	Gln	Thr	Ile	Phe	Glu	Leu	Ser	Gln
1				5					10					15	
Glu	Ala	Glu	Arg	Leu	Leu	Gln	Leu	Ala	Leu	Asn	Asn	Leu	Asp	Ser	Leu
			20					25					30		
Lys	Ser	Met	Pro	Ile	Ala	Lys	Leu	Asp	Ser	Thr	Thr	Ala	Ala	Met	Ser
		35					40					45			
Gly	Val	Asn	Asn	Asn	Val	Leu	Pro	Leu	His	Phe	Ser	Ala	Arg	Gly	Val
	50					55				60					
Asp	Ala	Gln	Gln	Ala	Met	Leu	Asn	Asn	Glu	Leu	Arg	Lys	Ile	Thr	Arg
65					70					75					80
Leu	Glu	Met	Val	Leu	Ala	Ile	Val	Gly	Thr	Met	Lys	Ala	Gly	Lys	Ser
			85						90					95	
Thr	Thr	Ile	Asn	Ala	Ile	Val	Gly	Thr	Glu	Val	Leu	Pro	Asn	Arg	Asn
			100					105					110		
Arg	Pro	Met	Thr	Ala	Leu	Pro	Thr	Leu	Ile	Arg	His	Thr	Pro	Gly	Gln
		115					120					125			
Lys	Glu	Pro	Val	Leu	His	Phe	Leu	His	Val	Ser	Pro	Ile	Asp	Thr	Leu
	130					135					140				

Ile	Thr	Gln	Leu	Gln	Lys	Lys	Leu	Cys	Asp	Lys	Asp	Arg	Gly	Lys	Leu
145					150					155					160
Ala	Arg	Arg	Leu	Glu	Ile	Asp	Lys	Asp	Met	Asn	Thr	Leu	Leu	Glu	Arg
				165					170					175	
Ile	Glu	Arg	Gly	Glu	Ala	Phe	Glu	Lys	His	His	Leu	Gly	Ala	Glu	Pro
			180					185					190		
Ile	Phe	His	Cys	Leu	Lys	Ser	Leu	Asn	Asp	Leu	Val	Arg	Leu	Ser	Gln
		195					200					205			
Ala	Leu	Gly	Val	Glu	Phe	Pro	Phe	Ser	Glu	Tyr	Ala	Ala	Ile	Glu	His
	210					215					220				
Ile	Pro	Val	Ile	Glu	Val	Glu	Phe	Val	His	Leu	Ala	Gly	Leu	Asp	Ala
225					230					235					240
His	Leu	Gly	Gln	Leu	Thr	Leu	Leu	Asp	Thr	Pro	Gly	Pro	Asn	Glu	Ala
			245						250					255	
Gly	Gln	Pro	His	Leu	Gln	Lys	Met	Leu	Asn	Glu	Gln	Leu	Ala	Arg	Ala
			260					265					270		
Ser	Ala	Val	Leu	Ala	Val	Met	Asp	Tyr	Thr	Gln	Leu	Lys	Ser	Ile	Ser
		275					280					285			
Asp	Ala	Glu	Val	Arg	Gln	Ala	Ile	Ser	Ala	Ala	Gly	Lys	Ser	Val	Pro
	290					295					300				
Leu	Tyr	Ala	Leu	Val	Asn	Lys	Phe	Asp	Gln	Lys	Asp	Arg	Asn	Ser	Asp
305					310					315					320
Asp	Glu	Glu	Gln	Val	Arg	Ala	Met	Ile	Ser	Gly	Thr	Leu	Met	Lys	Gly
			325						330					335	
Asn	Ile	Ser	Pro	Gly	Gln	Ile	Tyr	Pro	Val	Ser	Ser	Met	Trp	Ala	Tyr
			340					345					350		
Leu	Ala	Asn	Arg	Ala	Arg	Tyr	Glu	Met	Asn	Val	His	Gly	Arg	Leu	Pro
		355					360					365			
Asp	His	Gln	Asp	Gln	Arg	Trp	Val	Gln	Asp	Phe	Ala	Glu	Ala	Ala	Leu
	370					375					380				
Gly	Arg	Arg	Trp	Arg	Thr	Ala	Asp	Leu	Asp	Asp	Ile	Asp	His	Ile	Arg
385					390					395					400
His	Ala	Ala	Asp	Leu	Leu	Trp	Glu	Asp	Ser	Leu	Phe	Glu	Gln	Pro	Ile
			405						410					415	
Arg	Lys	Leu	Ile	Tyr	Ala	Ala	Tyr	Ala	Asn	Ala	Ser	Leu	Phe	Ala	Leu
			420					425					430		
Arg	Ser	Ala	Ser	His	Lys	Leu	Leu	Asn	Tyr	Ala	Gln	Asn	Ala	Arg	Glu
		435					440					445			
Tyr	Leu	Asp	Phe	Arg	His	Gln	Gly	Leu	Thr	Val	Ala	Phe	Asp	Glu	Leu
	450					455					460				
Glu	Leu	Asn	Ile	Ala	Arg	Leu	Glu	Glu	Asp	Met	Thr	Met	Leu	Arg	Lys
465					470					475					480
Arg	Gln	Ser	Val	Val	Ser	Asp	Glu	Val	Gln	His	Glu	Val	Glu	Glu	Ala
			485						490					495	
Leu	Asn	Ala	Thr	Asp	Ala	Phe	Leu	Leu	Arg	Gln	Lys	Asp	Glu	Leu	His
		500						505					510		
Gln	Ala	Leu	Gly	Asp	Ile	Phe	Ser	Arg	Pro	Ser	Ile	Leu	Asp	Leu	Ala
		515					520					525			
Gly	Arg	Glu	Pro	Ser	Ser	Leu	Arg	Glu	Asp	Asp	Ala	Asp	Ala	Ile	Gln
	530					535					540				
Gln	Leu	Val	Leu	Asp	Asp	Glu	Gly	Gln	Ala	Gln	Ile	Val	Leu	Ser	Lys
545					550					555					560
Ile	Arg	Ser	Ser	Cys	Glu	Gln	Ile	Met	Leu	Asn	Ala	Gln	Ser	Arg	Ile
			565						570					575	
Gly	Arg	Glu	Leu	Ala	Leu	Arg	Phe	Asp	Gln	Leu	Glu	Ser	Thr	Leu	Ala
		580					585						590		
Arg	Ser	Leu	Asn	Glu	Ala	Met	Arg	Pro	Ile	Glu	Thr	Arg	Ile	Lys	Glu
		595					600					605			
Gln	Leu	Ser	His	Ala	Gly	Phe	Arg	Ala	Arg	Ile	Ser	Phe	Pro	Ala	Phe
	610					615					620				
Gln	Ala	Asn	Gln	Leu	Asn	Phe	Asn	Thr	Arg	Gly	Leu	Phe	Asn	Asp	Ala

625					630					635				640
Ile	Val	Gln	Asp	Thr	Pro	Pro	Ala	Ser	Gln	Pro	Ala	Gly	Ala	Gly
				645					650					655
Val	Arg	Asn	Thr	Val	Ser	Arg	Trp	Leu	Asn	Asn	Pro	Gly	Trp	Gly
			660					665					670	
Glu	Glu	Tyr	Val	Val	Thr	Arg	Thr	Arg	Tyr	Val	Ile	Asp	Ile	Ala
		675					680					685		Gln
Leu	His	Gly	Lys	Phe	Thr	Gln	His	Thr	Asp	Gln	Phe	Cys	Asp	Gln
	690					695					700			Ile
Arg	Lys	Ala	Leu	Ala	Ala	Gln	Val	Asp	Val	Ser	Val	Thr	Ala	Gly
705					710					715				Met
Ala	Thr	Phe	Phe	Ala	Glu	Phe	Ser	Leu	Cys	Leu	Thr	Gly	Leu	Gln
				725					730					Glu
Ser	Leu	Arg	Asp	Ser	Leu	Ala	Val	Arg	Gln	Gln	Asn	Glu	His	Ser
			740					745					750	Thr
Arg	Ala	Leu	Ser	Gln	Leu	Leu	Lys	Gln	Ser	Met	Thr	Thr	Ala	Ala
		755					760					765		Trp
Ile	Gln	Glu	Asp	Thr	Arg	Leu	Leu	Arg	Asp	Asp	Ile	Gln	Thr	Leu
	770					775					780			Phe
Ala	Ala	Glu	Gln	Pro										
785					790									

<210> 8852

<211> 297

<212> PRT

<213> Enterobacter cloacae

<400> 8852

Arg	Ile	Gln	His	Val	Asn	Ala	Gly	Trp	Phe	Asp	Gly	Ala	Asp	Asp	Asp
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Leu	Ala	Ser	Ala	Gly	Ser	Pro	Ala	Asp	Asp	Pro	Ser	Thr	Ala	Glu	Ala
			20					25					30		
Glu	Thr	His	Thr	Gly	Glu	Arg	Arg	Ala	Gly	Met	Lys	Pro	Leu	Leu	Ser
		35					40					45			
Val	Asn	Gly	Leu	Met	Met	Arg	Phe	Gly	Gly	Leu	Leu	Ala	Val	Asn	Asn
	50					55				60					
Val	Asn	Leu	Asp	Leu	His	Lys	Lys	Glu	Ile	Val	Ser	Leu	Ile	Gly	Pro
65					70					75					80
Asn	Gly	Ala	Gly	Lys	Thr	Thr	Val	Phe	Asn	Cys	Leu	Thr	Gly	Phe	Tyr
				85					90					95	
Lys	Pro	Thr	Gly	Gly	Thr	Ile	Met	Leu	Arg	Asp	Gln	His	Leu	Glu	Gly
			100					105					110		
Leu	Pro	Gly	Gln	Gln	Ile	Ala	Arg	Met	Gly	Val	Val	Arg	Thr	Phe	Gln
		115					120					125			
His	Val	Arg	Leu	Phe	Arg	Glu	Met	Thr	Val	Ile	Glu	Asn	Leu	Leu	Val
	130					135					140				
Ala	Gln	His	Gln	Gln	Leu	Lys	Thr	Gly	Leu	Phe	Ser	Gly	Leu	Leu	Lys
145					150					155					160
Thr	Pro	Ala	Phe	Arg	Arg	Thr	Gln	Glu	Glu	Ala	Leu	Asp	Arg	Ala	Ala
			165						170					175	
Thr	Trp	Leu	Asp	Arg	Ile	Gly	Leu	Leu	Gln	His	Ala	Asn	Arg	Gln	Ala
			180				185						190		
Ser	Asn	Leu	Ala	Tyr	Gly	Asp	Gln	Arg	Arg	Leu	Glu	Ile	Val	Arg	Cys
		195				200						205			
Met	Val	Thr	Gln	Pro	Glu	Ile	Leu	Met	Leu	Asp	Glu	Pro	Ala	Ala	Gly
	210					215					220				
Leu	Asn	Pro	Lys	Glu	Thr	Lys	Glu	Leu	Asp	Glu	Leu	Ile	Ala	Glu	Leu
225					230					235					240
Arg	Asp	His	His	Asp	Thr	Thr	Ile	Leu	Leu	Ile	Glu	His	Asp	Met	Lys
			245						250					255	
Leu	Val	Met	Gly	Ile	Ser	Asp	Arg	Ile	Tyr	Val	Val	Asn	Gln	Gly	Thr

		260						265					270		
Pro	Leu	Ala	Asn	Gly	Thr	Pro	Glu	Glu	Ile	Arg	Asn	Asn	Pro	Asp	Val
		275					280					285			
Ile	Arg	Ala	Tyr	Leu	Gly	Glu	Ala								
		290					295								

<210> 8853

<211> 450

<212> PRT

<213> Enterobacter cloacae

<400> 8853

Tyr	Arg	Ala	Ser	Gly	Thr	Ile	Arg	Glu	Met	Thr	Met	Thr	Ser	Leu	Arg
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His	Thr	Ala	Leu	Gly	Leu	Ala	Leu	Gly	Leu	Ala	Phe	Ala	Thr	Asn	Ala
		20						25					30		
Met	Ala	Val	Thr	Thr	Ile	Pro	Phe	Trp	His	Ser	Met	Glu	Gly	Glu	Leu
		35					40					45			
Gly	Lys	Glu	Val	Asp	Ser	Leu	Ala	Gln	Arg	Phe	Asn	Asp	Thr	His	Pro
	50					55					60				
Asp	Tyr	Lys	Ile	Val	Pro	Val	Tyr	Lys	Gly	Asn	Tyr	Glu	Gln	Ser	Leu
65					70					75					80
Ser	Ala	Gly	Ile	Ala	Ala	Phe	Arg	Thr	Gly	Asn	Ala	Pro	Ala	Leu	Leu
				85					90					95	
Gln	Val	Tyr	Glu	Val	Gly	Thr	Ala	Thr	Met	Met	Ala	Ser	Lys	Ala	Ile
			100					105					110		
Lys	Pro	Val	Tyr	Glu	Val	Phe	Lys	Glu	Ala	Gly	Ile	Asn	Phe	Asp	Glu
		115					120					125			
Ser	Gln	Phe	Val	Pro	Thr	Val	Ala	Gly	Tyr	Tyr	Thr	Asp	Ser	Lys	Ser
	130					135					140				
Gly	His	Leu	Leu	Ser	Gln	Pro	Phe	Asn	Ser	Ser	Thr	Pro	Val	Leu	Tyr
145					150					155					160
Tyr	Asn	Lys	Asp	Ala	Phe	Arg	Lys	Ala	Gly	Leu	Asp	Pro	Glu	Gln	Pro
			165					170						175	
Pro	Lys	Thr	Trp	Gln	Asp	Leu	Ala	Glu	Tyr	Thr	Ala	Lys	Leu	Lys	Ala
			180					185					190		
Ala	Gly	Met	Lys	Cys	Gly	Tyr	Ala	Ser	Gly	Trp	Gln	Gly	Trp	Ile	Gln
		195					200					205			
Ile	Glu	Asn	Phe	Ser	Ala	Trp	His	Gly	Leu	Pro	Val	Ala	Thr	Lys	Asn
	210					215					220				
Asn	Gly	Phe	Asp	Gly	Thr	Asp	Ala	Val	Leu	Glu	Phe	Asn	Lys	Pro	Glu
225				230						235					240
Gln	Val	Lys	His	Ile	Ala	Leu	Leu	Glu	Glu	Leu	Asn	Lys	Lys	Gly	Asp
			245						250					255	
Phe	Ser	Tyr	Phe	Gly	Arg	Lys	Asp	Glu	Ser	Thr	Glu	Lys	Phe	Tyr	Asn
			260					265					270		
Gly	Asp	Cys	Ala	Ile	Thr	Thr	Ala	Ser	Ser	Gly	Ser	Leu	Ala	Asp	Ile
	275						280					285			
Arg	His	Tyr	Ala	Lys	Phe	Asn	Tyr	Gly	Val	Gly	Met	Met	Pro	Tyr	Asp
	290					295					300				
Ala	Asp	Val	Lys	Gly	Ala	Pro	Gln	Asn	Ala	Ile	Ile	Gly	Gly	Ala	Ser
305					310					315					320
Leu	Trp	Val	Met	Gln	Gly	Lys	Asp	Asn	Gly	Thr	Tyr	Lys	Gly	Val	Ala
				325					330					335	
Glu	Phe	Leu	Asp	Phe	Leu	Ala	Lys	Pro	Glu	Asn	Ala	Ala	Glu	Trp	His
			340					345					350		
Gln	Lys	Thr	Gly	Tyr	Leu	Pro	Ile	Thr	Lys	Ala	Ala	Tyr	Asp	Leu	Thr
		355					360					365			
Arg	Glu	Gln	Gly	Phe	Tyr	Ser	Lys	Asn	Pro	Gly	Ala	Asp	Ile	Ala	Thr
	370					375					380				
Arg	Gln	Met	Leu	Asn	Lys	Pro	Pro	Leu	Pro	Phe	Thr	Lys	Gly	Leu	Arg

385 390 395 400
 Leu Gly Asn Met Pro Gln Ile Arg Thr Ile Val Asp Glu Glu Leu Glu
 405 410 415
 Ser Val Trp Thr Gly Lys Lys Thr Pro Gln Gln Ala Leu Asp Ser Ala
 420 425 430
 Val Glu Arg Gly Asn Gln Leu Leu Arg Arg Phe Glu Gln Ser Thr Lys
 435 440 445
 Ser
 450

<210> 8854
 <211> 297
 <212> PRT
 <213> Enterobacter cloacae

<400> 8854
 Pro Met Ser Ser Ser Arg Pro Val Phe Arg Ser Arg Trp Leu Pro Tyr
 1 5 10 15
 Leu Leu Val Ala Pro Gln Leu Val Ile Thr Val Ile Phe Phe Ile Trp
 20 25 30
 Pro Ala Gly Glu Ala Leu Trp Tyr Ser Val Gln Ser Val Asp Pro Phe
 35 40 45
 Gly Leu Ser Ser Gln Phe Val Gly Leu Asp Asn Phe Thr Ala Leu Phe
 50 55 60
 His Asp Ser Tyr Tyr Leu Asp Ser Phe Trp Thr Thr Ile Lys Phe Ser
 65 70 75 80
 Ala Leu Val Thr Val Ser Gly Leu Val Ala Ser Leu Phe Phe Ala Ala
 85 90 95
 Leu Val Asp Tyr Val Val Arg Gly Ser Arg Leu Tyr Gln Thr Leu Met
 100 105 110
 Leu Leu Pro Tyr Ala Val Ala Pro Ala Val Ala Val Leu Trp Ile
 115 120 125
 Phe Leu Phe Asn Pro Gly Arg Gly Leu Ile Thr His Phe Leu Gly Glu
 130 135 140
 Phe Gly Tyr Asp Trp Asn His Ala Gln Asn Ser Gly Gln Ala Met Phe
 145 150 155 160
 Leu Val Val Phe Ala Ser Val Trp Lys Gln Ile Ser Tyr Asn Phe Leu
 165 170 175
 Phe Phe Phe Ala Ala Leu Gln Ser Ile Pro Arg Ser Leu Val Glu Ala
 180 185 190
 Ala Ala Ile Asp Gly Ala Gly Pro Val Arg Arg Phe Phe Arg Leu Ser
 195 200 205
 Leu Pro Leu Ile Ala Pro Val Ser Phe Phe Leu Leu Val Val Asn Leu
 210 215 220
 Val Tyr Ala Phe Phe Asp Thr Phe Pro Val Ile Asp Ala Ala Thr Ala
 225 230 235 240
 Gly Gly Pro Val Gln Ala Thr Thr Thr Leu Ile Tyr Lys Ile Tyr Arg
 245 250 255
 Glu Gly Phe Ala Gly Leu Asp Leu Ser Ala Ser Ala Ala Gln Ser Val
 260 265 270
 Val Leu Met Phe Leu Val Ile Ile Leu Thr Val Val Gln Phe Arg Tyr
 275 280 285
 Val Glu Ser Lys Val Arg Tyr Gln
 290 295

<210> 8855
 <211> 373
 <212> PRT
 <213> Enterobacter cloacae

<400> 8855

Pro Cys Ser Ala Arg Leu Ser Ala Ala Trp Ser Ile Ala Arg Asn Lys
 1 5 10 15
 Met Ala Gly Leu Lys Leu Gln Ala Val Thr Lys Ser Trp Asp Gly Lys
 20 25 30
 Thr Gln Val Ile Gln Pro Leu Thr Leu Asp Val Ala Asp Gly Glu Phe
 35 40 45
 Ile Val Met Val Gly Pro Ser Gly Cys Gly Lys Ser Thr Leu Leu Arg
 50 55 60
 Met Val Ala Gly Leu Glu Arg Val Thr Ser Gly Asp Ile Trp Ile Asp
 65 70 75 80
 Arg Gln Arg Val Thr Glu Met Glu Pro Lys Asp Arg Gly Ile Ala Met
 85 90 95
 Val Phe Gln Asn Tyr Ala Leu Tyr Pro His Met Ser Val Glu Glu Asn
 100 105 110
 Met Ala Trp Gly Leu Lys Ile Arg Gly Met Gly Lys Gly His Ile Glu
 115 120 125
 Glu Arg Val Lys Glu Ala Ala Arg Ile Leu Glu Leu Asp Gly Leu Leu
 130 135 140
 Lys Arg Arg Pro Arg Glu Leu Ser Gly Gly Gln Arg Gln Arg Val Ala
 145 150 155 160
 Met Gly Arg Ala Ile Val Arg Asp Pro Ala Val Phe Leu Phe Asp Glu
 165 170 175
 Pro Leu Ser Asn Leu Asp Ala Lys Leu Arg Val Gln Met Arg Leu Glu
 180 185 190
 Leu Gln Gln Leu His Arg Arg Leu Gly Thr Thr Ser Leu Tyr Val Thr
 195 200 205
 His Asp Gln Val Glu Ala Met Thr Leu Ala Gln Arg Val Met Val Met
 210 215 220
 Asn Lys Gly Ile Ala Glu Gln Ile Gly Thr Pro Val Glu Val Tyr Glu
 225 230 235 240
 Lys Pro Ala Ser Arg Phe Val Ala Ser Phe Ile Gly Ser Pro Ala Met
 245 250 255
 Asn Leu Leu Asp Gly Arg Ile Asn Ala Ala Gly Thr His Phe Glu Leu
 260 265 270
 Glu Ser Gly Met Ala Leu Pro Ile Asn Trp Tyr Tyr Arg Gly Tyr Ala
 275 280 285
 Gly Arg Lys Met Thr Leu Gly Ile Arg Pro Glu His Ile Gly Leu Thr
 290 295 300
 Ser Gln Ala Asp Gly Gly Val Pro Leu Val Met Asp Thr Leu Glu Met
 305 310 315 320
 Leu Gly Ala Asp Asn Leu Ala His Gly Arg Trp Gly Glu Gln Lys Leu
 325 330 335
 Val Val Arg Leu Pro His Gln Glu Arg Pro Lys Ala Gly Ser Thr Leu
 340 345 350
 Trp Leu His Met Pro Glu Asn His Leu His Leu Phe Asp Gly Glu Thr
 355 360 365
 Gly Gln Arg Val
 370

<210> 8856

<211> 361

<212> PRT

<213> Enterobacter cloacae

<400> 8856

Phe Leu Asn Leu Pro Phe Lys Arg Gly Arg Leu Ser Phe Val Arg Asp
 1 5 10 15
 Lys Leu Ser Lys Ser Leu Thr Ser Arg Phe Leu Arg Thr Met Lys Lys
 20 25 30
 Lys Arg Pro Val Leu Gln Asp Val Ala Asp Arg Val Gly Val Thr Lys
 35 40 45

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Met Thr Val Ser Arg Phe Leu Arg Asn Pro Glu Gln Val Ser Val Ala
 50      55      60
Leu Arg Gly Lys Ile Ala Ala Leu Asp Glu Leu Gly Tyr Ile Pro
65      70      75      80
Asn Arg Ala Pro Asp Ile Leu Ser Asn Ala Thr Ser Arg Ala Val Gly
      85      90      95
Val Leu Leu Pro Ser Leu Thr Asn Gln Val Phe Ala Glu Val Leu Arg
      100      105      110
Gly Ile Glu Ser Val Thr Asp Ala Phe Gly Tyr Gln Thr Met Leu Ala
      115      120      125
His Tyr Gly Tyr Lys Pro Glu Leu Glu Glu Arg Leu Glu Ser Met
      130      135      140
Leu Ser Trp Asn Ile Asp Gly Leu Ile Leu Thr Glu Arg Thr His Thr
145      150      155      160
Pro Arg Thr Leu Lys Met Ile Glu Val Ala Gly Ile Pro Val Val Glu
      165      170      175
Leu Met Asp Ser Gln Ser Pro Cys Leu Asp Ile Ala Val Gly Phe Asp
      180      185      190
Asn Phe Glu Ala Ala Arg Gln Met Thr Ala Ala Ile Ile Ala Arg Gly
      195      200      205
His Arg His Val Ala Tyr Leu Gly Ala Arg Leu Asp Glu Arg Thr Ile
      210      215      220
Ile Lys Gln Lys Gly Tyr Glu Gln Ala Met Leu Asp Ala Gly Leu Thr
225      230      235      240
Pro Tyr Ser Val Met Val Glu Gln Ser Ser Ser Tyr Thr Ser Gly Ile
      245      250      255
Glu Leu Met Arg Gln Ala Arg Arg Glu Tyr Pro Gln Leu Asp Gly Ile
      260      265      270
Phe Cys Thr Asn Asp Asp Leu Ala Val Gly Ala Ala Phe Glu Cys Gln
      275      280      285
Arg Leu Gly Leu Lys Ile Pro Asp Asp Met Ala Ile Ala Gly Phe His
      290      295      300
Gly His Asp Ile Gly Gln Val Met Glu Pro Arg Leu Ala Ser Val Leu
305      310      315      320
Thr Pro Arg Glu Arg Met Gly Arg Ile Gly Ala Glu Arg Leu Leu Ala
      325      330      335
Arg Ile Arg Gly Glu Ala Val Thr Pro Lys Met Leu Asp Leu Gly Phe
      340      345      350
Thr Leu Ser Pro Gly Gly Ser Ile
      355      360

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<210> 8857

<211> 183

<212> PRT

<213> Enterobacter cloacae

<400> 8857

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Gln Leu Thr Glu Gly His Pro Leu Ser Thr Thr Asn His Asp His His
1      5      10      15
Val Tyr Val Leu Met Gly Val Ser Gly Ser Gly Lys Ser Ala Val Ala
      20      25      30
Ser Glu Val Ala His Gln Leu Gln Ala Ala Phe Leu Asp Gly Asp Phe
      35      40      45
Leu His Pro Arg Ser Asn Ile Met Lys Met Ala Ser Gly Glu Pro Leu
      50      55      60
Asn Asp Asp Asp Arg Lys Pro Trp Leu Gln Ala Leu Asn Asp Ala Ala
65      70      75      80
Phe Ala Met Gln Arg Thr Asn Lys Val Ser Leu Ile Val Cys Ser Ala
      85      90      95
Leu Lys Lys Thr Tyr Arg Asp Leu Leu Arg Asp Gly Asn Pro Asn Leu
      100      105      110

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Ser Phe Ile Tyr Leu Lys Gly Asp Phe Gly Val Ile Glu Ser Arg Leu
 115 120 125
 Lys Ala Arg Lys Gly His Phe Phe Lys Thr Gln Met Leu Val Thr Gln
 130 135 140
 Phe Glu Ala Leu Gln Glu Pro Gly Ala Asp Glu Gln Asp Val Leu Val
 145 150 155 160
 Val Asp Ile Asp Gln Pro Leu Glu Gly Val Val Ala Ser Thr Ile Glu
 165 170 175
 Val Ile Asn Lys Arg Gln
 180

<210> 8858

<211> 448

<212> PRT

<213> Enterobacter cloacae

<400> 8858

Val Leu Ser Thr Leu Thr Leu Val Leu Thr Ala Val Gly Ser Val Leu
 1 5 10 15
 Leu Leu Leu Phe Leu Val Met Lys Ala Arg Met His Ala Phe Val Ala
 20 25 30
 Leu Met Val Val Ser Ile Gly Ala Gly Leu Phe Ser Gly Met Pro Leu
 35 40 45
 Asp Lys Ile Ala Ala Thr Met Glu Lys Gly Met Gly Gly Thr Leu Gly
 50 55 60
 Phe Leu Ala Ile Val Val Ala Leu Gly Ala Met Phe Gly Lys Ile Leu
 65 70 75 80
 His Glu Thr Gly Ala Val Asp Gln Ile Ala Val Lys Met Leu Lys Ser
 85 90 95
 Phe Gly His Ser Arg Ala His Tyr Ala Ile Gly Leu Ala Gly Leu Ile
 100 105 110
 Cys Ala Leu Pro Leu Phe Phe Glu Val Ala Val Val Leu Leu Ile Ser
 115 120 125
 Val Ala Phe Ser Met Ala Arg His Thr Gly Thr Asn Leu Val Lys Leu
 130 135 140
 Val Ile Pro Leu Phe Ala Gly Val Ala Ala Ala Ala Phe Leu Leu
 145 150 155 160
 Pro Gly Pro Ala Pro Met Leu Leu Ala Ser Gln Met His Ala Asp Phe
 165 170 175
 Gly Trp Met Ile Leu Ile Gly Leu Cys Ala Ala Ile Pro Gly Met Ile
 180 185 190
 Ile Ala Gly Pro Leu Trp Gly Asn Phe Ile Ser Arg Tyr Val Glu Leu
 195 200 205
 His Ile Pro Asp Asp Ile Thr Glu Pro His Leu Gly Glu Gly Lys Met
 210 215 220
 Pro Ser Phe Gly Phe Ser Leu Ser Leu Ile Leu Leu Pro Leu Val Leu
 225 230 235 240
 Val Gly Leu Lys Thr Ile Ala Ala Arg Phe Val Pro Val Gly Ser Thr
 245 250 255
 Ala Tyr Glu Trp Phe Glu Phe Ile Gly His Pro Phe Thr Ala Ile Leu
 260 265 270
 Val Ala Cys Leu Val Ala Ile Tyr Gly Leu Ala Met Arg Gln Gly Met
 275 280 285
 Pro Lys Asp Arg Val Met Glu Ile Cys Gly Ala Ala Leu Gln Pro Ala
 290 295 300
 Gly Ile Ile Leu Leu Val Ile Gly Ala Gly Gly Val Phe Lys Gln Val
 305 310 315 320
 Leu Val Asp Ser Gly Val Gly Pro Ala Leu Gly Glu Ala Leu Thr Gly
 325 330 335
 Met Gly Leu Pro Ile Ala Val Thr Cys Phe Val Leu Ala Ala Ala Val
 340 345 350

Arg Ile Ile Gln Gly Ser Ala Thr Val Ala Cys Leu Thr Ala Val Gly
 355 360 365
 Leu Val Met Pro Val Ile Glu Gln Leu Asn Tyr Ser Gly Ala Gln Met
 370 375 380
 Ala Ala Leu Ser Ile Cys Ile Ala Gly Gly Ser Ile Val Val Ser His
 385 390 395 400
 Val Asn Asp Ala Gly Phe Trp Leu Phe Gly Lys Phe Thr Gly Ala Thr
 405 410 415
 Glu Ala Gln Thr Leu Lys Thr Trp Thr Leu Met Glu Thr Ile Leu Gly
 420 425 430
 Thr Thr Gly Ala Val Val Gly Met Ile Ala Phe Thr Leu Leu Ser
 435 440 445

<210> 8859

<211> 683

<212> PRT

<213> Enterobacter cloacae

<400> 8859

Lys Pro Trp Pro Ser Glu Leu Pro Glu Pro Asp Ala Ala Ala Ala Trp
 1 5 10 15
 His Asn Leu Ala Gly Ala Gly Gly Arg Met Thr Gln Leu Thr Ala Gly
 20 25 30
 Lys Pro Glu Pro Leu Gly Ala Ser Phe Asp Gly Lys Gly Val Asn Phe
 35 40 45
 Thr Leu Phe Ser Ala His Ala Glu Arg Val Glu Leu Cys Val Phe Asp
 50 55 60
 Gly Glu Gly Asn Glu His Arg Tyr Asp Leu Pro Ala Arg Thr Gly Asp
 65 70 75 80
 Thr Trp His Gly Tyr Leu Ala Gly Gly Arg Pro Gly Met His Tyr Gly
 85 90 95
 Phe Arg Val His Gly Pro Trp Glu Pro Ser Gln Gly His Trp Phe Asn
 100 105 110
 Pro Ala Lys Leu Leu Ile Asp Pro Cys Ala His Arg Val Asp Gly Glu
 115 120 125
 Phe Lys Asp Asp Pro Leu Phe His Val Gly Tyr Gly Glu Pro Asp His
 130 135 140
 Leu Asp Ser Ala Pro Val Ala Pro Lys Ser Val Val His Asp Leu
 145 150 155 160
 Tyr Asp Trp Glu Asp Ala Pro Pro Arg Thr Pro Trp Gly Asn Thr
 165 170 175
 Val Ile Tyr Glu Ala His Val Lys Gly Leu Thr Tyr Leu His Pro Ser
 180 185 190
 Ile Pro Lys Glu Met Arg Gly Thr Tyr Lys Ala Leu Gly His Pro Thr
 195 200 205
 Met Val Ala Tyr Leu Lys His Leu Gly Ile Thr Ala Leu Glu Leu Leu
 210 215 220
 Pro Val Ala His Phe Ala Ser Glu Pro Arg Leu Gln Arg Leu Gly Leu
 225 230 235 240
 Ser Asn Tyr Trp Gly Tyr Asn Pro Leu Ala Leu Phe Ala Leu Asp Pro
 245 250 255
 Arg Tyr Ala Val Asn Pro Glu Lys Ala Arg Asp Glu Phe Arg Asp Ala
 260 265 270
 Val Lys Ala Leu His Ala Ala Gly Ile Glu Val Ile Leu Asp Val Val
 275 280 285
 Leu Asn His Ser Ala Glu Ser Asp Leu Asp Gly Pro Thr Leu Ser Gln
 290 295 300
 Arg Gly Ile Asp Asn Arg Ser Tyr Tyr Trp Ile Arg Asp Asp Gly Asp
 305 310 315 320
 Tyr Glu Asn Trp Thr Gly Cys Gly Asn Thr Leu Asn Leu Ser His Pro
 325 330 335

Ala	Val	Thr	His	Tyr	Ala	Tyr	Glu	Cys	Leu	Lys	Tyr	Trp	Val	Glu	Thr
			340					345					350		
Phe	His	Val	Asp	Gly	Phe	Arg	Phe	Asp	Leu	Ala	Pro	Val	Met	Gly	Arg
		355					360					365			
Thr	Pro	Ala	Phe	Ser	Gln	Gln	Ala	Pro	Leu	Phe	Glu	Ala	Ile	Lys	Asn
	370					375					380				
Cys	Pro	Val	Leu	Ser	Lys	Val	Lys	Leu	Ile	Ala	Glu	Pro	Trp	Asp	Ile
385					390					395				400	
Gly	Glu	Gly	Gly	Tyr	Gln	Val	Gly	Asn	Phe	Pro	Pro	Leu	Phe	Ala	Glu
				405				410						415	
Trp	Asn	Asp	His	Phe	Arg	Asp	Ala	Val	Arg	Arg	Phe	Trp	Leu	Thr	Arg
			420				425						430		
Asp	Leu	Ser	Leu	Gly	Glu	Phe	Ala	Gly	Arg	Phe	Ala	Gly	Ser	Ser	Asp
		435					440					445			
Leu	Phe	Lys	Arg	Asp	Gly	Lys	Arg	Pro	Ser	Ala	Thr	Ile	Asn	Val	Val
	450					455					460				
Thr	Ala	His	Asp	Gly	Phe	Thr	Leu	Arg	Asp	Cys	Val	Cys	Phe	Asn	Gln
465					470					475					480
Lys	His	Asn	Glu	Ala	Asn	Gly	Glu	Glu	Asn	Arg	Asp	Gly	Thr	Asn	Asn
				485					490					495	
Asn	His	Ser	Phe	Asn	His	Gly	Ile	Glu	Gly	Leu	Gly	Gly	Ser	Leu	Asp
			500					505					510		
Val	Ile	Glu	Arg	Arg	Arg	Ala	Ser	Val	His	Ala	Leu	Leu	Thr	Thr	Leu
		515					520					525			
Leu	Leu	Ser	Gln	Gly	Thr	Pro	Met	Leu	Leu	Ala	Gly	Asp	Glu	His	Gly
	530					535					540				
His	Ser	Gln	His	Gly	Asn	Asn	Asn	Ala	Tyr	Cys	Gln	Asp	Asn	Thr	Leu
545					550					555					560
Thr	Trp	Leu	Asp	Trp	Gly	Glu	Ala	Asn	Ser	Gly	Leu	Thr	His	Phe	Thr
			565						570					575	
Ala	Ala	Leu	Ile	His	Leu	Arg	Gln	Arg	Ile	Pro	Ala	Leu	Thr	Ala	Asp
			580					585					590		
Arg	Trp	Trp	Glu	Glu	Gly	Asp	Gly	Asn	Val	Arg	Trp	Leu	Asn	Lys	Asp
		595					600					605			
Ala	Gln	Pro	Leu	Ser	Ala	Gln	Glu	Trp	Gln	His	Gly	Ile	Pro	Cys	Leu
	610					615					620				
Gln	Ile	Leu	Leu	Ser	Asp	Ala	Trp	Leu	Val	Thr	Leu	Asn	Ala	Thr	Asp
625					630					635					640
Asp	Val	Ala	Glu	Ile	Val	Leu	Pro	Asp	Gly	Glu	Trp	Arg	Ala	Ile	Pro
			645						650					655	
Pro	Phe	Ala	Gly	Ala	Asp	Asn	Pro	Val	Val	Met	Ala	Val	Trp	His	Gly
		660						665					670		
Pro	Ala	His	Gly	Val	Cys	Val	Phe	Gln	Arg						
		675					680								

<210> 8860

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 8860

Tyr	Thr	Leu	Ser	Ala	Asp	Pro	Ser	Arg	Pro	Val	Val	Lys	Thr	Cys	Asp
1				5					10					15	
Pro	Lys	Gln	Ala	Val	Ala	Val	Ala	Asn	Lys	Ile	Val	Asn	Asp	Gly	Ile
		20					25						30		
Gln	Tyr	Val	Ile	Gly	His	Leu	Cys	Ser	Ser	Ser	Thr	Gln	Pro	Ala	Ser
	35						40					45			
Asp	Ile	Tyr	Glu	Asp	Glu	Gly	Ile	Leu	Met	Ile	Thr	Pro	Gly	Ala	Thr
	50					55					60				
Asn	Pro	Glu	Leu	Thr	Gln	Arg	Gly	Tyr	Gln	His	Ile	Met	Arg	Thr	Ala
65					70					75					80

Gly Leu Asp Ser Ser Gln Gly Pro Thr Ala Ala Lys Tyr Ile Leu Glu
 85 90 95
 Thr Val Lys Pro Gln Arg Ile Ala Ile His Asp Lys Gln Gln Tyr
 100 105 110
 Gly Glu Gly Leu Ala Arg Ser Val Gln Asp Gly Leu Lys Lys Gly Gly
 115 120 125
 Ala Asn Ile Val Phe Phe Asp Gly Ile Thr Ala Gly Glu Lys Asp Phe
 130 135 140
 Ser Ala Leu Ile Ala Arg Leu Gln Lys Glu Asn Ile Asp Phe Val Tyr
 145 150 155 160
 Tyr Gly Gly Tyr Tyr Pro Glu Met Gly Gln Met Leu Arg Gln Ala Arg
 165 170 175
 Ala Thr Gly Leu Lys Thr Gln Phe Met Gly Pro Glu Gly Val Gly Asn
 180 185 190
 Ala Ser Leu Ser Asn Ile Ala Gly Asp Ser Ala Glu Gly Met Leu Val
 195 200 205
 Thr Met Pro Lys Arg Tyr Asp Gln Asp Pro Ala Asn Lys Ala Ile Val
 210 215 220
 Asp Ala Leu Lys Ala Gln Lys Lys Asp Pro Ser Gly Pro Tyr Val Trp
 225 230 235 240
 Ile Thr Tyr Ala Ala Val Gln Ser Leu Ala Thr Ala Leu Asp Arg Thr
 245 250 255
 Gly Ser Lys Glu Pro Leu Asp Leu Val Lys Asp Leu Lys Ala His Gly
 260 265 270
 Ala Asn Thr Val Ile Gly Pro Leu Asn Trp Asp Glu Lys Gly Asp Leu
 275 280 285
 Lys Gly Phe Glu Phe Gly Val Phe Lys Trp His Ala Asp Gly Ser Ser
 290 295 300
 Ser Val Ala Arg
 305

<210> 8861

<211> 454

<212> PRT

<213> Enterobacter cloacae

<400> 8861

Arg Cys Gly Val Val Cys Pro Ala Asn Ser Gly Ser Ala Gly Asp Ala
 1 5 10 15
 Tyr Arg Tyr Ser Gly Pro Ser Gly Gly Arg Glu Ser Met Lys Pro Met
 20 25 30
 His Phe Ala Met Ala Leu Leu Ser Ala Ala Met Phe Phe Val Leu Ala
 35 40 45
 Gly Val Phe Met Gly Val Gln Leu Gly Leu Asp Gly Thr Lys Leu Val
 50 55 60
 Val Asp Thr Ala Pro Asp Ile Arg Trp Gln Trp Val Phe Ile Gly Thr
 65 70 75 80
 Ala Val Val Phe Leu Phe Gln Leu Leu Arg Pro Leu Phe Gln Lys Thr
 85 90 95
 Leu Lys Asn Val Ser Gly Pro Lys Phe Val Leu Pro Ala Ile Asp Gly
 100 105 110
 Thr Thr Val Lys Gln Lys Leu Phe Leu Val Ala Leu Leu Val Ala Ala
 115 120 125
 Val Ala Trp Pro Phe Met Val Ser Arg Gly Thr Val Asp Ile Ala Thr
 130 135 140
 Leu Thr Met Ile Tyr Val Ile Leu Gly Leu Gly Leu Asn Val Val Val
 145 150 155 160
 Gly Leu Ser Gly Leu Leu Val Leu Gly Tyr Gly Gly Phe Tyr Ala Ile
 165 170 175
 Gly Ala Tyr Thr Phe Ala Leu Leu Asn His Tyr Tyr Gly Leu Gly Phe
 180 185 190

Trp Thr Cys Leu Pro Leu Ala Gly Leu Val Ser Ala Ala Ala Gly Phe
 195 200 205
 Leu Leu Gly Phe Pro Val Leu Arg Leu Arg Gly Asp Tyr Leu Ala Ile
 210 215 220
 Val Thr Leu Gly Phe Gly Glu Ile Val Arg Ile Leu Leu Leu Asn Asn
 225 230 235 240
 Thr Glu Val Thr Gly Gly Pro Asn Gly Ile Ser Gln Ile Pro Lys Pro
 245 250 255
 Thr Phe Phe Gly Leu Glu Phe Ser Arg Thr Ala Arg Glu Gly Gly Trp
 260 265 270
 Asp Thr Phe Ser Asn Phe Phe Gly Ile Lys Tyr Asp Pro Ser Asp Arg
 275 280 285
 Val Ile Trp Leu Tyr Leu Val Ala Leu Leu Leu Val Val Ile Thr Leu
 290 295 300
 Phe Val Ile Asn Arg Leu Leu Arg Met Pro Leu Gly Arg Ala Trp Glu
 305 310 315 320
 Ala Leu Arg Glu Asp Glu Ile Ala Cys Arg Ser Leu Gly Leu Asn Pro
 325 330 335
 Thr Arg Ile Lys Leu Thr Ala Phe Thr Ile Ser Ala Ala Phe Ala Gly
 340 345 350
 Phe Ala Gly Thr Leu Phe Ala Ala Arg Gln Gly Phe Val Ser Pro Glu
 355 360 365
 Ser Phe Thr Phe Ala Glu Ser Ala Phe Val Leu Ala Ile Val Val Leu
 370 375 380
 Gly Gly Met Gly Ser Gln Phe Ala Val Ile Leu Ala Ala Ile Leu Leu
 385 390 395 400
 Val Val Ser Arg Glu Leu Met Arg Asp Phe Asn Glu Tyr Ser Met Leu
 405 410 415
 Met Leu Gly Gly Leu Met Val Leu Met Met Ile Trp Arg Pro Gln Gly
 420 425 430
 Leu Leu Pro Met Thr Arg Pro Gln Leu Lys Leu Lys Arg Thr Gln Ala
 435 440 445
 Lys Gly Glu Gln Ala
 450

<210> 8862

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 8862

Ser Ala His Thr Leu Val Arg His Lys Met Glu Lys Ala Met Leu Thr
 1 5 10 15
 Phe Asp Lys Val Asn Ala His Tyr Gly Lys Ile Gln Ala Leu His Asp
 20 25 30
 Val Ser Leu His Ile Asn Gln Gly Glu Ile Val Thr Leu Ile Gly Ala
 35 40 45
 Asn Gly Ala Gly Lys Thr Thr Leu Leu Gly Thr Leu Cys Gly Asp Pro
 50 55 60
 Arg Ala Thr Ser Gly Arg Ile Val Phe Asp Gly Lys Asp Ile Thr Asp
 65 70 75 80
 Trp Gln Thr Ala Arg Ile Met Arg Glu Ala Val Ala Ile Val Pro Glu
 85 90 95
 Gly Arg Arg Val Phe Ser Arg Met Thr Val Glu Glu Asn Leu Ala Met
 100 105 110
 Gly Gly Phe Phe Ala His Arg Asp Glu Tyr Gln Thr Arg Ile Lys Trp
 115 120 125
 Val Tyr Glu Leu Phe Pro Arg Leu Trp Glu Arg Arg Ile Gln Arg Ala
 130 135 140
 Gly Thr Met Ser Gly Gly Glu Gln Gln Met Leu Ala Ile Gly Arg Ala
 145 150 155 160

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<210> 8863
<211> 735
<212> PRT
<213> Enterobacter cloacae
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<400>	8863														
Lys 1	Asn	Arg	Met	Asn 5	Thr	Met	Ser	Asp	Arg 10	Ile	Ser	Arg	Asp	Val 15	Ile
Asn	Ala	Leu	Ile 20	Ala	Gly	His	Phe	Ala 25	Asp	Pro	Phe	Ser	Val 30	Leu	Gly
Met	His	Arg 35	Thr	Glu	Ala	Gly	Leu 40	Glu	Val	Arg	Ala	Leu 45	Leu	Pro	Asp
Ala	Thr 50	Glu	Val	Trp	Val	Ile 55	Glu	Pro	Lys	Thr	Gly 60	Arg	Lys	Val	Gly
Asn 65	Leu	Glu	Cys	Leu	Asp 70	Ser	Arg	Gly	Phe	Phe 75	Ser	Gly	Val	Met	Pro 80
Arg	Arg	Lys	Asn 85	Pro	Phe	Arg	Tyr	Gln 90	Leu	Ala	Val	Ile	Trp 95	His	Gly
Gln	Gln	Asn 100	Leu	Ile	Asp	Asp	Pro	Tyr 105	Ser	Phe	Gly	Pro	Leu 110	Leu	Lys
Glu	Met	Asp 115	Ala	Trp	Leu	Leu	Ser 120	Glu	Gly	Thr	His	Leu 125	Arg	Pro	Tyr
Glu	Thr 130	Leu	Gly	Ala	His	Ala 135	Asp	Thr	Met	Asp	Gly 140	Ile	Thr	Gly	Thr
Arg 145	Phe	Ala	Val	Trp	Ala 150	Pro	Asn	Ala	Gln	Arg 155	Val	Ser	Val	Val	Gly 160
Gln	Phe	Asn	Tyr	Trp 165	Asp	Gly	Arg	Arg	His 170	Pro	Met	Arg	Leu 175	Arg	Arg
Glu	Thr	Gly 180	Ile	Trp	Glu	Leu	Phe	Ile 185	Pro	Gly	Ala	His	Asn 190	Gly	Gln
Leu	Tyr	Lys 195	Phe	Glu	Met	Ile	Asp 200	Ala	Asn	Gly	Lys	Leu 205	Arg	Ile	Lys
Ser	Asp 210	Pro	Tyr	Ala	Phe	Glu 215	Ala	Glu	Leu	Arg	Pro 220	Asn	Thr	Ala	Ser
Leu 225	Ile	Cys	Gly	Leu	Pro 230	Glu	Lys	Val	Val	Gln 235	Thr	Glu	Glu	Arg	Lys 240
Gln	Ala	Asn	Arg	Phe 245	Asp	Ala	Pro	Ile	Ser 250	Val	Tyr	Glu	Val	His 255	Leu
Gly	Ser	Trp 260	Arg	Arg	His	Thr	Asp 265	Asn	Phe	Trp	Leu	Ser 270	Tyr	Arg	
Glu	Leu	Ala 275	Asp	Gln	Leu	Val	Pro 280	Tyr	Ala	Lys	Trp	Met 285	Gly	Phe	Thr
His	Leu 290	Glu	Leu	Leu	Pro	Ile 295	Asn	Glu	His	Pro	Phe 300	Asp	Gly	Ser	Trp
Gly 305	Tyr	Gln	Pro	Thr	Gly 310	Leu	Tyr	Ala	Pro	Thr 315	Arg	Arg	Phe	Gly	Thr 320
Arg	Asp	Asp	Phe	Arg 325	Tyr	Phe	Ile	Asp	Ala 330	His	Ala	Ala	Gly 335	Leu	


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Asn Val Ile Leu Asp Trp Val Pro Gly His Phe Pro Ser Asp Asp Phe
      340      345      350
Ala Leu Ala Glu Phe Asp Gly Thr Lys Leu Tyr Glu His Ser Asp Pro
      355      360      365
Arg Glu Gly Tyr His Gln Asp Trp Asn Thr Leu Ile Tyr Asn Tyr Gly
      370      375      380
Arg Arg Glu Val Ser Asn Tyr Leu Val Gly Asn Ala Leu Tyr Trp Ile
      385      390      395      400
Glu Arg Phe Gly Ile Asp Ala Leu Arg Val Asp Ala Val Ala Ser Met
      405      410      415
Ile Tyr Arg Asp Tyr Ser Arg Lys Glu Gly Glu Trp Ile Pro Asn Glu
      420      425      430
Tyr Gly Gly Arg Glu Asn Leu Glu Ala Ile Glu Phe Leu Arg Asn Thr
      435      440      445
Asn Arg Ile Ile Gly Glu Gln Val Glu Gly Ala Val Thr Met Ala Glu
      450      455      460
Glu Ser Thr Asp Phe Pro Gly Val Ser Arg Pro Pro Ser Met Gly Gly
      465      470      475      480
Leu Gly Phe Trp Tyr Lys Trp Asn Leu Gly Trp Met His Asp Thr Leu
      485      490      495
Asp Tyr Met Lys Leu Asp Pro Val Tyr Arg Gln Tyr His His Asp Lys
      500      505      510
Leu Thr Phe Gly Leu Leu Tyr Asn Tyr Thr Glu Asn Phe Met Leu Pro
      515      520      525
Leu Ser His Asp Glu Val Val His Gly Lys Lys Ser Ile Leu Asp Arg
      530      535      540
Met Pro Gly Asp Ala Trp Gln Lys Phe Ala Asn Leu Arg Ala Tyr Tyr
      545      550      555      560
Gly Trp Met Phe Ala Phe Pro Gly Lys Lys Leu Leu Phe Met Gly Asn
      565      570      575
Glu Phe Ala Gln Gly Arg Glu Trp Asn His Asp Thr Ser Leu Asp Trp
      580      585      590
His Leu Leu Glu Gly Ala Asp Asn Trp His His Gly Val Gln Arg Leu
      595      600      605
Val Arg Asp Leu Asn Leu Thr Tyr Arg His His Lys Ala Leu His Glu
      610      615      620
Leu Asp Phe Asp Pro Tyr Gly Phe Glu Trp Leu Val Val Asp Asp His
      625      630      635      640
Glu Arg Ser Val Phe Val Phe Ala Arg Arg Asp Lys Ala Gly Asn Glu
      645      650      655
Ile Ile Val Ala Ser Asn Phe Thr Pro Val Pro Arg Glu His Tyr Arg
      660      665      670
Phe Gly Ile Asn Gln Pro Gly Lys Trp Arg Glu Ile Leu Asn Thr Asp
      675      680      685
Ser Met His Tyr His Gly Ser Asn Ala Gly Asn Gly Gly Leu Val Gln
      690      695      700
Ser Asp Ala Ile Glu Ser His Gly Arg Pro Asn Ser Leu Ser Leu Thr
      705      710      715      720
Leu Pro Pro Leu Gly Thr Ile Trp Leu Val Arg Glu Gly Glu
      725      730      735

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<210> 8864

<211> 549

<212> PRT

<213> Enterobacter cloacae

<400> 8864

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Tyr Arg Phe Gly Ser Pro Ala Ala Gly Cys Leu Gly Arg Ala Leu Met
1      5      10      15
Ser Ser Ala Ser Leu Arg Tyr Arg Pro Cys Leu Arg His Ser Arg Arg
      20      25      30

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Asp	Gly	Asp	Trp	Gly	Lys	Cys	Gly	Arg	Arg	Cys	Ala	Ser	Phe	Leu	Pro
		35					40					45			
Phe	Gly	Arg	Gly	Asp	Arg	Val	Ser	Asn	Thr	Gly	Asn	Val	Ala	Glu	Ala
	50					55					60				
Ala	Asn	Gln	Thr	Gly	Ala	Met	Met	Gln	Val	Leu	His	Val	Cys	Ser	Glu
65					70					75					80
Met	Phe	Pro	Leu	Leu	Lys	Thr	Gly	Gly	Leu	Ala	Asp	Val	Leu	Gly	Ala
				85					90					95	
Leu	Pro	Ala	Ala	Gln	Ile	Ala	Gly	Gly	Val	Asp	Thr	Arg	Val	Leu	Leu
			100					105					110		
Pro	Ala	Phe	Pro	Asp	Ile	Arg	Arg	Gly	Ile	Pro	Asp	Ala	Lys	Val	Val
		115						120				125			
Thr	Arg	Arg	Glu	Thr	Phe	Ala	Gly	Arg	Ile	Thr	Leu	Leu	Phe	Gly	His
	130					135					140				
Tyr	Asn	Gly	Thr	Gly	Ile	Tyr	Leu	Ile	Asp	Ala	Pro	His	Leu	Tyr	Asp
145					150					155					160
Arg	Pro	Gly	Ser	Pro	Tyr	His	Asp	Thr	Asn	Leu	Tyr	Ala	Tyr	Thr	Asp
				165					170					175	
Asn	Val	Leu	Arg	Phe	Ala	Leu	Leu	Gly	Trp	Val	Gly	Ala	Glu	Met	Ala
			180					185					190		
Val	Gly	Leu	Asp	Pro	Phe	Trp	Arg	Pro	Asn	Val	Val	His	Ala	His	Asp
		195					200					205			
Trp	His	Ala	Gly	Leu	Ala	Pro	Ala	Tyr	Leu	Ala	Ala	Lys	Gly	His	Pro
	210					215					220				
Ala	Lys	Ser	Val	Phe	Thr	Val	His	Asn	Leu	Ala	Tyr	Gln	Gly	Met	Tyr
225					230					235					240
Tyr	Ala	His	His	Met	Asn	Asp	Ile	Asp	Leu	Pro	Trp	Ser	Phe	Phe	Asn
				245					250					255	
Met	His	Gly	Leu	Glu	Phe	Asn	Gly	Gln	Ile	Ser	Phe	Leu	Lys	Ala	Gly
			260					265					270		
Leu	Tyr	Tyr	Ala	Asp	His	Ile	Thr	Ala	Val	Ser	Pro	Thr	Tyr	Ala	Arg
		275					280					285			
Glu	Ile	Thr	Gln	Pro	Glu	Phe	Gly	Tyr	Gly	Met	Glu	Gly	Leu	Leu	Gln
	290					295				300					
Gln	Arg	His	Arg	Glu	Gly	Arg	Leu	Ser	Gly	Ile	Leu	Asn	Gly	Val	Asp
305					310					315					320
Glu	Gln	Ile	Trp	Asn	Pro	Glu	Thr	Asp	Leu	Leu	Leu	Ala	Ala	Arg	Tyr
				325					330					335	
Gly	Arg	Asp	Ser	Val	Glu	Asp	Lys	Ala	Glu	Asn	Lys	Arg	Gln	Leu	Gln
			340					345					350		
Ile	Ala	Met	Gly	Leu	Lys	Val	Asn	Asp	Lys	Val	Pro	Leu	Phe	Ala	Val
		355					360					365			
Val	Ser	Arg	Leu	Thr	Ser	Gln	Lys	Gly	Leu	Asp	Leu	Val	Leu	Glu	Ala
	370					375					380				
Leu	Pro	Gly	Leu	Leu	Glu	Gln	Gly	Gly	Gln	Leu	Ala	Leu	Leu	Gly	Ala
385					390					395					400
Gly	Asp	Pro	Val	Leu	Gln	Glu	Gly	Phe	Leu	Ala	Ala	Ala	Ala	Glu	His
				405					410					415	
Pro	Gly	Gln	Val	Gly	Val	Gln	Ile	Gly	Tyr	His	Glu	Ala	Phe	Ser	His
			420					425					430		
Arg	Ile	Met	Gly	Gly	Ala	Asp	Val	Ile	Leu	Val	Pro	Ser	Arg	Phe	Glu
		435					440					445			
Pro	Cys	Gly	Leu	Thr	Gln	Leu	Tyr	Gly	Leu	Lys	Tyr	Gly	Thr	Leu	Pro
	450					455					460				
Leu	Val	Arg	Arg	Thr	Gly	Gly	Leu	Ala	Asp	Thr	Val	Ser	Asp	Ser	Ser
465					470					475					480
Leu	Glu	Asn	Leu	Ala	Asp	Gly	Ile	Ala	Ser	Gly	Phe	Val	Phe	Glu	Asp
				485					490					495	
Ser	Asn	Ala	Trp	Ser	Leu	Leu	Arg	Ala	Ile	Arg	Arg	Ala	Phe	Val	Leu
		500						505					510		
Trp	Ser	Arg	Pro	Ser	Leu	Trp	Arg	Tyr	Val	Gln	Arg	Gln	Ala	Met	Ser

515 520 525
 Met Asp Phe Gly Trp His Val Ala Ala Gln Ser Tyr Arg Asp Leu Tyr
 530 535 540
 Gln Arg Leu Met
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<210> 8865

<211> 822

<212> PRT

<213> Enterobacter cloacae

<400> 8865

Arg Gly Glu Val Thr Asp Met Asn Ala Pro Phe Ser Tyr Ser Ser Pro
 1 5 10 15
 Thr Leu Ser Val Glu Ala Leu Lys His Ser Ile Ala Tyr Lys Leu Met
 20 25 30
 Phe Thr Ile Gly Lys Asp Pro Val Ile Ala Asn Lys His Glu Trp Leu
 35 40 45
 Asn Ala Thr Leu Phe Ala Val Arg Asp Arg Met Val Glu Arg Trp Leu
 50 55 60
 Arg Ser Asn Arg Ala Gln Leu Ser Gln Glu Thr Arg Gln Val Tyr Tyr
 65 70 75 80
 Leu Ser Met Glu Phe Leu Ile Gly Arg Thr Leu Ser Asn Ala Leu Leu
 85 90 95
 Ser Leu Gly Ile Tyr Asp Asp Val Lys Asn Ala Leu Glu Glu Met Gly
 100 105 110
 Leu Asp Leu Glu Glu Leu Ile Asp Glu Glu Asn Asp Pro Gly Leu Gly
 115 120 125
 Asn Gly Gly Leu Gly Arg Leu Ala Ala Cys Phe Leu Asp Ser Leu Ala
 130 135 140
 Thr Leu Ala Leu Pro Gly Arg Gly Tyr Gly Ile Arg Tyr Asp Tyr Gly
 145 150 155 160
 Met Phe Lys Gln Asn Ile Val Asp Gly Arg Gln Lys Glu Ser Pro Asp
 165 170 175
 Tyr Trp Leu Glu Tyr Gly Asn Pro Trp Glu Phe Lys Arg His Asn Thr
 180 185 190
 Arg Tyr Lys Val Arg Phe Gly Gly Arg Ile Gln Gln Glu Gly Lys Lys
 195 200 205
 Ser Arg Trp Val Glu Thr Glu Glu Ile Leu Ala Val Ala Tyr Asp Gln
 210 215 220
 Ile Ile Pro Gly Tyr Asp Thr Asp Ala Thr Asn Thr Leu Arg Leu Trp
 225 230 235 240
 Asn Ala Gln Ala Ser Ser Glu Ile Asn Leu Gly Lys Phe Asn Gln Gly
 245 250 255
 Asp Tyr Phe Ala Ala Val Glu Asp Lys Asn His Ser Glu Asn Val Ser
 260 265 270
 Arg Val Leu Tyr Pro Asp Asp Ser Thr Tyr Ser Gly Arg Glu Leu Arg
 275 280 285
 Leu Arg Gln Glu Tyr Phe Leu Val Ser Ala Thr Ile Gln Asp Ile Leu
 290 295 300
 Ser Arg His Tyr Gln Leu His Lys Thr Tyr Ala Asn Leu Ala Glu Lys
 305 310 315 320
 Thr Ala Ile His Leu Asn Asp Thr His Pro Val Leu Ser Ile Pro Glu
 325 330 335
 Leu Met Arg Leu Leu Ile Asp Glu His Lys Phe Ser Trp Asp Asp Ala
 340 345 350
 Phe Glu Val Thr Cys Gln Val Phe Ser Tyr Thr Asn His Thr Leu Met
 355 360 365
 Ser Glu Ala Leu Glu Thr Trp Pro Val Asp Met Leu Gly Lys Ile Leu
 370 375 380
 Pro Arg His Leu Gln Ile Ile Phe Glu Ile Asn Asp Tyr Phe Leu Lys

385					390					395				400
Thr	Leu	Gln	Glu	Gln	Tyr	Pro	Asn	Asp	Thr	Gly	Leu	Leu	Ser	Arg Ala
				405					410					415
Ser	Ile	Ile	Asp	Glu	Ser	Asn	Gly	Arg	Val	Arg	Met	Ala	Trp	Leu
			420					425				430		
Ala	Val	Val	Ile	Ser	His	Lys	Val	Asn	Gly	Val	Ser	Glu	Leu	His Ser
			435				440					445		
Asn	Leu	Met	Val	Gln	Ser	Leu	Phe	Ala	Asp	Phe	Ala	Lys	Ile	Phe Pro
			450			455					460			
Thr	Arg	Phe	Cys	Asn	Val	Thr	Asn	Gly	Val	Thr	Pro	Arg	Arg	Trp Leu
465					470					475				480
Ala	Leu	Ala	Asn	Gln	Pro	Leu	Ser	Asp	Val	Leu	Asp	Glu	Asn	Ile Gly
			485						490				495	
Arg	Thr	Trp	Arg	Thr	Asp	Leu	Ser	Gln	Leu	Ser	Glu	Leu	Glu	Gln His
			500					505					510	
Ile	Asp	Phe	Pro	Thr	Val	Asn	Lys	Ala	Val	Arg	Glu	Ala	Lys	Leu Leu
			515				520					525		
Asn	Lys	Lys	Arg	Leu	Ala	Val	Trp	Leu	Ala	Met	His	Leu	Asn	Val Val
			530			535					540			
Ala	Asn	Pro	Lys	Ala	Leu	Phe	Asp	Val	Gln	Ile	Lys	Arg	Ile	His Glu
545					550					555				560
Tyr	Lys	Arg	Gln	Leu	Met	Asn	Val	Leu	His	Val	Ile	Thr	His	Tyr Asn
			565						570					575
Arg	Ile	Lys	Ala	Asp	Pro	Thr	Ala	Glu	Trp	Val	Pro	Arg	Val	Lys Ile
			580					585					590	
Phe	Ala	Gly	Lys	Ala	Ala	Ser	Ala	Tyr	Tyr	Met	Ala	Lys	His	Ile Ile
			595				600					605		
His	Leu	Ile	Asn	Asp	Val	Ala	Lys	Val	Val	Asn	His	Asp	Pro	Asp Ile
			610			615					620			
Gly	Asp	Lys	Leu	Lys	Val	Val	Phe	Ile	Pro	Asn	Tyr	Ser	Val	Ser Leu
625					630					635				640
Ala	Gln	Leu	Ile	Ile	Pro	Ala	Ala	Asp	Leu	Ser	Glu	Gln	Ile	Ser Thr
			645						650					655
Ala	Gly	Thr	Glu	Ala	Ser	Gly	Thr	Ser	Asn	Met	Lys	Phe	Ala	Leu Asn
			660					665					670	
Gly	Ala	Leu	Thr	Ile	Gly	Thr	Leu	Asp	Gly	Ala	Asn	Val	Glu	Met Leu
			675				680					685		
Glu	His	Val	Gly	Ala	Glu	Asn	Ile	Phe	Ile	Phe	Gly	Asn	Thr	Ala Glu
			690			695					700			
Glu	Val	Glu	Ala	Leu	Arg	Lys	Gln	Gly	Tyr	Ser	Pro	Arg	Glu	Tyr Tyr
705					710					715				720
Glu	Glu	Asp	Glu	Glu	Leu	Arg	Gln	Val	Leu	Thr	Gln	Ile	Ala	Thr Gly
			725						730					735
Val	Phe	Asn	Pro	Glu	Glu	Pro	Gly	Arg	Tyr	Arg	Asp	Leu	Val	Asp Ser
			740					745					750	
Leu	Ile	Asn	Phe	Gly	Asp	His	Tyr	Gln	Val	Leu	Ala	Asp	Tyr	Arg Ser
			755				760					765		
Tyr	Val	Asp	Cys	Gln	Asp	Lys	Val	Asp	Glu	Leu	Tyr	Arg	Gln	Gln Glu
			770			775					780			
Lys	Trp	Thr	Ser	Thr	Ala	Met	His	Asn	Ile	Ala	Asn	Met	Gly	Tyr Phe
785					790					795				800
Ser	Ser	Asp	Arg	Thr	Ile	Lys	Glu	Tyr	Ala	Glu	Asn	Ile	Trp	His Ile
			805						810					815
Asp	Pro	Val	Arg	Leu										
				820										

<210> 8866

<211> 313

<212> PRT

<213> Enterobacter cloacae

<400> 8866

Lys Gly Leu His Met Ser Glu Gln Phe Leu Tyr Phe Leu Gln Gln Met
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 Phe Asn Gly Val Thr Leu Gly Ser Thr Tyr Ala Leu Ile Ala Ile Gly
 20 25 30
 Tyr Thr Met Val Tyr Gly Ile Ile Gly Met Ile Asn Phe Ala His Gly
 35 40 45
 Glu Val Tyr Met Ile Gly Ser Tyr Val Ser Phe Met Ile Ile Ala Ala
 50 55 60
 Leu Met Met Met Gly Ile Asp Ser Ser Trp Leu Leu Val Ala Ala Gly
 65 70 75 80
 Phe Val Gly Ala Ile Val Ile Ala Ser Ala Tyr Gly Trp Ser Ile Glu
 85 90 95
 Arg Val Ala Tyr Arg Pro Val Arg Ser Ser Lys Arg Leu Ile Ala Leu
 100 105 110
 Ile Ser Ala Ile Gly Met Ser Ile Phe Leu Gln Asn Tyr Val Ser Leu
 115 120 125
 Thr Glu Gly Ser Arg Asp Val Ala Leu Pro Ser Leu Phe Asn Gly Gln
 130 135 140
 Trp Ile Val Gly Ala Ser Glu Asn Phe Ser Ala Ser Val Thr Thr Met
 145 150 155 160
 Gln Leu Val Ile Trp Val Val Thr Phe Ile Ala Met Leu Ala Leu Thr
 165 170 175
 Leu Phe Ile Arg Tyr Ser Arg Met Gly Arg Ala Cys Arg Ala Cys Ala
 180 185 190
 Glu Asp Leu Lys Met Ala Ser Leu Leu Gly Ile Asn Thr Asp Arg Val
 195 200 205
 Ile Ala Leu Thr Phe Val Ile Gly Ala Ala Met Ala Ala Val Ala Gly
 210 215 220
 Val Leu Leu Gly Gln Phe Tyr Gly Val Ile Asn Pro Tyr Ile Gly Phe
 225 230 235 240
 Met Ala Gly Met Lys Ala Phe Thr Ala Ala Val Leu Gly Gly Ile Gly
 245 250 255
 Ser Ile Pro Gly Ala Met Ile Gly Gly Leu Ile Leu Gly Val Ala Glu
 260 265 270
 Ala Leu Ser Ser Ala Tyr Leu Ser Thr Glu Tyr Lys Asp Val Val Ser
 275 280 285
 Phe Ala Leu Leu Ile Leu Val Leu Leu Val Met Pro Thr Gly Ile Leu
 290 295 300
 Gly Arg Pro Glu Val Glu Lys Val
 305 310

<210> 8867

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 8867

Gly Ala Leu Pro Met Ile Glu Asn Arg Arg Gly Leu Thr Ile Phe Ser
 1 5 10 15
 His Thr Leu Leu Ile Leu Gly Ile Leu Val Ile Leu Phe Pro Leu Tyr
 20 25 30
 Val Ala Phe Val Ala Ala Thr Leu Asp Thr Lys Ala Val Phe Asp Thr
 35 40 45
 Pro Met Thr Leu Ile Pro Gly Thr His Leu Phe Glu Asn Met Lys Thr
 50 55 60
 Ile Trp Thr Gln Gly Val Gly Ala Asn Ser Ala Pro Phe Trp Leu Met
 65 70 75 80
 Met Leu Asn Ser Phe Ile Met Ala Phe Gly Ile Thr Val Gly Lys Ile
 85 90 95
 Thr Val Ser Met Leu Ser Ala Phe Ala Ile Val Trp Phe Arg Phe Pro

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<210> 8868
<211> 252
<212> PRT
<213> Enterobacter cloacae
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<400>	8868															
Asn	Arg	Thr	Thr	Ser	Met	Ser	Asn	Trp	Pro	Tyr	Pro	His	Ile	Val	Ala	
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His	Arg	Gly	Gly	Gly	Lys	Leu	Ala	Pro	Glu	Asn	Thr	Leu	Ala	Ala	Ile	
			20					25					30			
Asp	Val	Gly	Ala	Arg	Tyr	Gly	His	Thr	Met	Ile	Glu	Phe	Asp	Ala	Lys	
		35					40					45				
Leu	Ser	Lys	Asp	Gly	Glu	Ile	Phe	Leu	Leu	His	Asp	Asp	Asn	Leu	Glu	
	50					55					60					
Arg	Thr	Ser	Asn	Gly	Trp	Gly	Val	Ala	Gly	Glu	Leu	Pro	Trp	Arg	Asp	
65				70						75					80	
Leu	Leu	Lys	Val	Asp	Ala	Gly	Ser	Trp	Phe	Ser	Gly	Glu	Phe	Lys	Gly	
				85					90					95		
Glu	Pro	Leu	Pro	Leu	Leu	Ala	Glu	Val	Ala	Asp	Arg	Cys	Arg	Gln	His	
			100					105						110		
Gly	Met	Met	Ala	Asn	Ile	Glu	Ile	Lys	Pro	Thr	Thr	Gly	Thr	Gly	Pro	
		115					120					125				
Leu	Thr	Gly	Lys	Val	Ile	Ala	Ile	Ala	Ala	Arg	Glu	Leu	Trp	Glu	Gly	
	130					135					140					
Met	Thr	Ala	Pro	Leu	Leu	Ser	Ser	Phe	Asp	Ile	Asp	Ala	Leu	Glu	Ala	
145				150					155					160		
Ala	Gln	Ala	Ala	Val	Pro	Glu	Leu	Pro	Arg	Gly	Leu	Leu	Leu	Asp	Ala	
				165					170					175		
Trp	Arg	Glu	Asp	Trp	Arg	Ala	Leu	Thr	Thr	Arg	Leu	Gly	Cys	Val	Ser	
			180					185					190			
Ile	His	Leu	Asn	His	Lys	Leu	Leu	Asp	Glu	Ala	Arg	Val	Thr	Leu	Leu	
		195					200					205				
Lys	Glu	Ala	Gly	Leu	His	Ile	Leu	Val	Tyr	Thr	Val	Asn	Lys	Pro	Gln	
	210					215					220					
Arg	Ala	Ala	Glu	Leu	Leu	Arg	Trp	Gly	Val	Asp	Ser	Ile	Cys	Thr	Asp	
225				230						235					240	
Ala	Ile	Asp	Gln	Ile	Gly	Pro	Asn	Phe	Ile	Tyr						

245

250

<210> 8869

<211> 594

<212> PRT

<213> Enterobacter cloacae

<400> 8869

Ala	Gly	Asn	Met	Gly	Pro	Phe	Thr	Trp	Arg	Thr	Ile	Met	Met	Lys	Pro
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Thr	Phe	Leu	Arg	Trp	Val	Ala	Ile	Ala	Ala	Leu	Met	Ala	Gly	Gly	Thr
			20					25					30		
Phe	Thr	Val	Ala	Ala	Asn	Pro	Pro	Ala	Ala	Pro	Pro	Val	Ser	Tyr	Gly
		35					40					45			
Val	Glu	Glu	Asp	Val	Phe	His	Pro	Val	Arg	Ala	Thr	His	Gly	Met	Val
	50					55					60				
Ala	Ser	Val	Asp	Ala	Leu	Ala	Thr	Gln	Val	Gly	Val	Asp	Ile	Leu	Lys
65					70					75				80	
Gln	Gly	Gly	Asn	Ala	Val	Asp	Ala	Ala	Val	Ala	Val	Gly	Tyr	Ala	Leu
			85					90						95	
Ala	Val	Thr	His	Pro	Gln	Ala	Gly	Asn	Leu	Gly	Gly	Gly	Gly	Phe	Met
			100					105					110		
Met	Leu	Arg	Thr	Lys	Asp	Gly	Lys	Thr	Thr	Ala	Ile	Asp	Phe	Arg	Glu
		115					120					125			
Met	Ala	Pro	Asn	Gln	Ala	Ser	Arg	Asp	Met	Phe	Leu	Asp	Asp	Gln	Gly
	130					135					140				
Asn	Pro	Asp	Ser	Lys	Lys	Ser	Leu	Thr	Ser	His	Leu	Ala	Ser	Gly	Thr
145				150						155				160	
Pro	Gly	Thr	Val	Ala	Gly	Phe	Ser	Leu	Ala	Leu	Glu	Lys	Tyr	Gly	Thr
			165					170						175	
Leu	Pro	Leu	Asn	Lys	Val	Val	Gln	Pro	Ala	Ile	Arg	Leu	Ala	Arg	Asp
			180				185					190			
Gly	Phe	Val	Val	Asn	Asp	Ala	Leu	Ala	Asp	Asp	Leu	Lys	Thr	Tyr	Gly
	195						200				205				
Ser	Glu	Val	Ile	Pro	Asn	His	Glu	Asn	Ser	Lys	Ala	Ile	Phe	Trp	Lys
	210				215					220					
Asp	Gly	Glu	Pro	Leu	Lys	Lys	Gly	Asp	Lys	Leu	Val	Gln	Lys	Asn	Leu
225				230						235				240	
Ala	Lys	Ser	Leu	Glu	Leu	Ile	Ala	Glu	Asn	Gly	Pro	Asp	Ala	Phe	Tyr
			245					250						255	
Lys	Gly	Pro	Ile	Ala	Asp	Gln	Ile	Ala	Asp	Glu	Met	Gln	Lys	Asn	Gly
		260					265					270			
Gly	Leu	Ile	Thr	Lys	Ala	Asp	Leu	Ala	Glu	Tyr	Lys	Ala	Val	Glu	Arg
	275						280					285			
Glu	Pro	Ile	Ser	Gly	Thr	Tyr	Arg	Gly	Tyr	Glu	Val	Phe	Ser	Met	Pro
	290				295					300					
Pro	Pro	Ser	Ser	Gly	Gly	Ile	His	Ile	Val	Gln	Ile	Leu	Asn	Ile	Leu
305				310						315				320	
Glu	Asn	Phe	Asp	Met	His	Lys	Tyr	Gly	Phe	Gly	Ser	Ala	Asp	Ala	Met
			325					330						335	
Gln	Val	Met	Ala	Glu	Ala	Glu	Lys	Arg	Ala	Tyr	Ala	Asp	Arg	Ser	Glu
		340					345					350			
Tyr	Leu	Gly	Asp	Pro	Asp	Phe	Val	Lys	Val	Pro	Trp	Gln	Ala	Leu	Thr
	355					360						365			
Asn	Lys	Ala	Tyr	Ala	Lys	Ser	Ile	Ala	Asp	Gln	Ile	Asp	Ile	Asn	Lys
	370				375					380					
Ala	Lys	Pro	Ser	Ser	Glu	Ile	Arg	Pro	Gly	Lys	Leu	Ala	Pro	Tyr	Glu
385				390						395				400	
Ser	Asn	Gln	Thr	Thr	His	Phe	Ser	Val	Val	Asp	Lys	Asp	Gly	Asn	Ala
			405					410						415	
Val	Ala	Val	Thr	Tyr	Thr	Leu	Asn	Thr	Thr	Phe	Gly	Thr	Gly	Ile	Val

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<210> 8870
<211> 347
<212> PRT
<213> Enterobacter cloacae
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<400> 8870																
Ala	Met	Thr	Leu	His	Cys	Ala	Phe	Ile	Gly	Phe	Gly	Lys	Ser	Thr	Thr	
1				5					10					15		
Arg	Tyr	His	Leu	Pro	Tyr	Val	Leu	Asn	Arg	Lys	Glu	Thr	Trp	His	Val	
			20					25					30			
Ala	His	Ile	Tyr	Arg	Arg	Ser	Ala	Lys	Pro	Glu	Glu	Gln	Ser	Pro	Gln	
			35				40					45				
Tyr	Ser	His	Ile	His	Phe	Thr	Ser	Asp	Leu	Asp	Glu	Val	Leu	Asn	Asp	
	50					55					60					
Pro	Gln	Val	Lys	Leu	Val	Val	Val	Cys	Thr	His	Ala	Asp	Ser	His	Phe	
65					70					75					80	
Asp	Tyr	Ala	Lys	Arg	Ala	Leu	Glu	Ala	Gly	Lys	Asn	Val	Leu	Val	Glu	
				85					90				95			
Lys	Pro	Phe	Thr	Pro	Thr	Ile	Ala	Glu	Ala	Lys	Glu	Leu	Phe	Ala	Leu	
			100					105					110			
Ala	Lys	Ser	Lys	Gly	Leu	Thr	Val	Thr	Pro	Tyr	Gln	Asn	Arg	Arg	Phe	
			115				120					125				
Asp	Ser	Cys	Phe	Leu	Thr	Ala	Lys	Lys	Ala	Ile	Glu	Ser	Gly	Lys	Leu	
	130					135					140					
Gly	Glu	Ile	Val	Glu	Ile	Glu	Ser	His	Phe	Asp	Tyr	Tyr	Arg	Pro	Val	
145					150					155					160	
Ala	Glu	Thr	Gln	Pro	Gly	Leu	Pro	Gln	Asp	Gly	Ser	Phe	Tyr	Gly	Leu	
				165					170						175	
Gly	Val	His	Thr	Met	Asp	Gln	Ile	Ile	Ser	Leu	Phe	Gly	Arg	Pro	Asp	
			180					185					190			
His	Val	Ala	Tyr	Asp	Ile	Arg	Ser	Leu	Arg	Asn	Lys	Ala	Asn	Pro	Asp	
			195				200					205				
Asp	Thr	Phe	Glu	Ala	Gln	Leu	Phe	Tyr	Gly	Asp	Leu	Lys	Ala	Ile	Val	
	210					215					220					
Lys	Thr	Ser	His	Leu	Val	Lys	Ile	Asp	Tyr	Pro	Lys	Phe	Ile	Val	His	
225					230					235					240	
Gly	Lys	Lys	Gly	Ser	Phe	Ile	Lys	Tyr	Gly	Ile	Asp	Gln	Gln	Glu	Thr	

				245					250					255			
Ser	Leu	Lys	Ala	Asn	Ile	Met	Pro	Gly	Glu	Pro	Gly	Phe	Ala	Ala	Asp		
			260					265					270				
Asp	Ser	Val	Gly	Val	Leu	Glu	Tyr	Val	Asn	Asp	Glu	Gly	Val	Thr	Val		
		275					280					285					
Arg	Glu	Glu	Leu	Lys	Pro	Glu	Thr	Gly	Asp	Tyr	Gly	Arg	Val	Tyr	Asp		
	290					295					300						
Ala	Leu	Phe	Glu	Thr	Leu	Thr	Asn	Gly	Thr	Ala	Asn	Tyr	Val	Lys	Glu		
305					310					315					320		
Ser	Asp	Val	Leu	Thr	Asn	Leu	Glu	Ile	Leu	Glu	Arg	Ala	Phe	Glu	Gln		
			325						330					335			
Ala	Ser	Pro	Ala	Thr	Val	Thr	Leu	Ala	Lys								
			340					345									

<210> 8871

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 8871

Ala	Lys	Thr	Ala	Pro	Leu	Arg	Leu	Phe	Thr	Ile	Phe	Glu	Gln	Arg	Ser		
1				5					10					15			
Gln	Phe	Ser	Pro	Ser	Met	Ile	Pro	Gly	Arg	Leu	Arg	Pro	His	Leu	Leu		
			20					25					30				
His	Arg	Asn	Glu	Leu	Arg	Val	Lys	Thr	Met	Ile	Tyr	Leu	Arg	Lys	Ala		
		35					40					45					
Asn	Glu	Arg	Gly	His	Ala	Asn	His	Gly	Trp	Leu	Asp	Ser	Trp	His	Ser		
	50					55					60						
Phe	Ser	Phe	Ala	Asp	Tyr	Tyr	Asp	Pro	Asn	Phe	Met	Gly	Phe	Ser	Ala		
65					70				75						80		
Leu	Arg	Val	Ile	Asn	Asp	Asp	Val	Ile	Asp	Ala	Gly	Gln	Gly	Phe	Gly		
				85				90						95			
Thr	His	Pro	His	Lys	Asp	Met	Glu	Ile	Leu	Thr	Tyr	Val	Leu	Glu	Gly		
			100					105					110				
Ala	Val	Glu	His	Gln	Asp	Ser	Met	Gly	Asn	Lys	Glu	Gln	Val	Pro	Ala		
			115				120						125				
Gly	Glu	Phe	Gln	Ile	Met	Ser	Ala	Gly	Thr	Gly	Val	Arg	His	Ser	Glu		
	130					135					140						
Tyr	Asn	Pro	Ser	Lys	Thr	Glu	Lys	Leu	His	Leu	Tyr	Gln	Ile	Trp	Ile		
145					150					155					160		
Ile	Pro	Glu	Glu	Thr	Gly	Ile	Thr	Pro	Arg	Tyr	Glu	Gln	Arg	Arg	Phe		
				165					170					175			
Asp	Ala	Lys	Gln	Gly	Lys	Gln	Leu	Val	Leu	Ser	Pro	Asp	Ala	Arg	Glu		
			180				185						190				
Gly	Ser	Leu	Lys	Val	His	Gln	Asp	Met	Glu	Leu	Tyr	Arg	Trp	Ala	Leu		
		195					200					205					
Ala	Lys	Asp	Glu	Gln	Ser	Val	His	Gln	Ile	Ala	Ala	Asn	Arg	Arg	Val		
	210					215						220					
Trp	Ile	Gln	Val	Val	Lys	Gly	Glu	Val	Ser	Ile	Asn	Gly	Thr	Lys	Ala		
225					230					235					240		
Thr	Thr	Ala	Asp	Gly	Leu	Ala	Val	Trp	Asp	Glu	Gln	Ala	Leu	Ser	Val		
			245						250					255			
His	Ala	Asp	Ser	Glu	Ser	Glu	Ile	Leu	Leu	Phe	Asp	Leu	Pro	Pro	Val		
			260					265					270				

<210> 8872

<211> 391

<212> PRT

<213> Enterobacter cloacae

<400> 8872

Cys Glu Ala Tyr Pro Ser Ser Ile Leu Ala Cys Thr Ile Ser Thr His
 1 5 10 15
 Pro Leu Gln Glu Lys Asn Ala Met Lys Asn Val Gly Phe Ile Gly Trp
 20 25 30
 Arg Gly Met Val Gly Ser Val Leu Met Gln Arg Met Val Glu Glu Arg
 35 40 45
 Asp Phe Asp Ala Ile Arg Pro Val Phe Phe Ser Thr Ser Gln Leu Gly
 50 55 60
 Gln Ala Ala Pro Ser Phe Gly Gly Thr Thr Gly Thr Leu Gln Asp Ala
 65 70 75 80
 Tyr Asp Leu Glu Ala Leu Lys Ala Leu Asp Ile Ile Val Thr Cys Gln
 85 90 95
 Gly Gly Asp Tyr Thr Asn Glu Ile Tyr Pro Lys Leu Arg Glu Ser Gly
 100 105 110
 Trp Gln Gly Tyr Trp Ile Asp Ala Ala Ser Ser Leu Arg Met Lys Asp
 115 120 125
 Asp Ala Ile Ile Ile Leu Asp Pro Val Asn Gln Gly Val Ile Thr Asp
 130 135 140
 Gly Leu Asn Asn Gly Val Lys Thr Phe Val Gly Gly Asn Cys Thr Val
 145 150 155 160
 Ser Leu Met Leu Met Ser Leu Gly Gly Leu Phe Ala Gln Asp Leu Val
 165 170 175
 Glu Trp Val Ser Val Ala Thr Tyr Gln Ala Ala Ser Gly Gly Gly Ala
 180 185 190
 Arg His Met Arg Glu Leu Leu Thr Gln Met Gly Gln Leu His Gln Ser
 195 200 205
 Val Ala Ala Glu Leu Ala Asp Pro Ala Ser Ala Ile Leu Asp Ile Glu
 210 215 220
 Arg Lys Val Thr Gln Leu Thr Arg Ser Gly Glu Leu Pro Val Asp Asn
 225 230 235 240
 Phe Gly Val Pro Leu Ala Gly Gly Leu Ile Pro Trp Ile Asp Lys Gln
 245 250 255
 Leu Asp Asn Gly Gln Thr Arg Glu Glu Trp Lys Gly Gln Ala Glu Thr
 260 265 270
 Asn Lys Ile Leu Gly Thr Ala Asn Thr Ile Pro Val Asp Gly Leu Cys
 275 280 285
 Val Arg Ile Gly Ala Leu Arg Cys His Ser Gln Ala Phe Thr Ile Lys
 290 295 300
 Leu Lys Lys Asp Val Ser Ile Pro Thr Val Glu Glu Leu Leu Ala Ala
 305 310 315 320
 His Asn Pro Trp Ala Lys Val Val Pro Asn Asp Arg Asp Ile Thr Met
 325 330 335
 Arg Glu Leu Thr Pro Ala Ala Val Thr Gly Thr Leu Thr Thr Pro Val
 340 345 350
 Gly Arg Leu Arg Lys Leu Asn Met Gly Pro Glu Tyr Leu Ser Ala Phe
 355 360 365
 Thr Val Gly Asp Gln Leu Leu Trp Gly Ala Ala Glu Pro Leu Arg Arg
 370 375 380
 Met Leu Arg Gln Leu Ala
 385 390

<210> 8873

<211> 458

<212> PRT

<213> Enterobacter cloacae

<400> 8873

Ser Gly Cys Tyr Gly Cys Leu Ala Arg Ala Cys Ala Arg Ser Val Arg
 1 5 10 15

Ile Pro Lys Met Ile Lys Lys Glu Leu Val Met Val Arg Leu Glu Lys
 20 25 30
 Asn Asp Pro Leu Met Leu Ala Arg Gln Leu Pro Leu Lys Thr Val Ala
 35 40 45
 Leu Ile Leu Ala Gly Gly Arg Gly Thr Arg Leu Lys Asp Leu Thr Ile
 50 55 60
 Lys Arg Ala Lys Pro Ala Val His Phe Gly Gly Lys Phe Arg Ile Ile
 65 70 75 80
 Asp Phe Ala Leu Ser Asn Cys Leu Asn Ser Gly Ile Arg Arg Ile Gly
 85 90 95
 Val Ile Thr Gln Tyr Gln Ser His Thr Leu Val Gln His Ile Gln Arg
 100 105 110
 Gly Trp Ser Phe Phe Ser Glu Glu Met Asn Glu Phe Val Asp Leu Leu
 115 120 125
 Pro Ala Gln Gln Arg Val His Gly Glu Asn Trp Tyr Arg Gly Thr Ala
 130 135 140
 Asp Ala Val Thr Gln Asn Leu Asp Ile Ile Arg Arg Tyr Asn Ala Glu
 145 150 155 160
 Tyr Ile Val Ile Leu Ala Gly Asp His Ile Tyr Lys Gln Asp Tyr Ser
 165 170 175
 His Met Leu Ile Asp His Val Glu Lys Gly Ala Arg Cys Thr Val Ala
 180 185 190
 Cys Leu Pro Val Pro Val Ala Glu Ala Thr Ala Phe Gly Val Met His
 195 200 205
 Val Asp Gly Asp Asp Lys Ile Ile Asp Phe Val Glu Lys Pro Ala Asn
 210 215 220
 Pro Pro Thr Met Pro Gly Asp Asp Thr Lys Ser Leu Ala Ser Met Gly
 225 230 235 240
 Ile Tyr Val Phe Asp Ala Asp Tyr Leu Tyr Glu Leu Leu Glu Glu Asp
 245 250 255
 Asp Lys Asp Glu Asn Ser Ser His Asp Phe Gly Lys Asp Ile Ile Pro
 260 265 270
 Lys Ile Thr Lys Ala Gly Met Ala Tyr Ala His Pro Phe Pro Leu Ser
 275 280 285
 Cys Val Gln Ser Asp Pro Asn Ala Glu Pro Tyr Trp Arg Asp Val Gly
 290 295 300
 Thr Leu Glu Ala Tyr Trp Lys Ala Asn Leu Asp Leu Ala Ser Val Thr
 305 310 315 320
 Pro Glu Leu Asp Met Tyr Asp Gln Asn Trp Pro Ile Arg Thr His Met
 325 330 335
 Glu Ser Leu Pro Pro Ala Lys Phe Val Gln Asp Arg Ser Gly Ser His
 340 345 350
 Gly Met Thr Leu Asn Ser Leu Val Ser Gly Gly Cys Ile Ile Ser Gly
 355 360 365
 Ser Val Val Val Gln Ser Val Leu Phe Pro Arg Val Arg Ile Asn Ser
 370 375 380
 Phe Cys Asn Ile Asp Ser Ala Val Leu Leu Pro Asp Val Trp Val Gly
 385 390 395 400
 Arg Ser Cys Arg Leu Arg Arg Cys Val Ile Asp Arg Ala Cys Val Ile
 405 410 415
 Pro Glu Gly Met Val Ile Gly Glu Asn Ala Glu Glu Asp Ala Arg Arg
 420 425 430
 Phe Tyr Arg Ser Glu Glu Gly Ile Val Leu Val Thr Arg Glu Met Leu
 435 440 445
 Arg Lys Leu Gln Ile Lys Gln Glu Arg
 450 455

<210> 8874

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 8874

```

Arg Arg Pro Pro Trp Ile Ser Leu Glu Leu Ala Asp Asp Val Ala Gln
1      5      10      15
Ala Arg Ser Leu Ala Ser Ser Ile Ser Thr Asp Lys Pro Arg Pro Ala
20      25      30
Ala Ser Thr Ala Ile Pro Ala Pro Leu Met Pro Pro Pro Ile Thr Ile
35      40      45
Arg Ser Leu Val Ser Ile Thr Pro Ser Cys Thr Phe Val Lys Ala Gln
50      55      60
Lys Cys Ser Ile Ser Leu Ile Ile Ala Lys Glu Arg Ala Phe Gly Asn
65      70      75      80
Ile Lys Lys Thr Ile
85

```

<210> 8875

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 8875

```

Arg Gly Pro Tyr Ser Pro Leu Lys Pro Gly Ser Gln Leu Leu Lys Asn
1      5      10      15
His Arg Tyr Ala Gly Met Arg Ile Asn Leu Arg Glu Ala Ser Lys Glu
20      25      30
Glu Ile Thr Met Lys Arg Leu Leu Ile Leu Thr Ala Leu Leu Pro Phe
35      40      45
Ala Ala Leu Ala Gln Pro Ile Asn Thr Leu Asn Asn Pro Asn Gln Pro
50      55      60
Gly Tyr Val Ile Pro Ser Gln Gln Arg Met Gln Thr Glu Met Met Ser
65      70      75      80
Gln Gln Gln Gln Gln Lys Gly Met Leu Asn Gln Gln Leu Lys Thr Gln
85      90      95
Thr Gln Val Gln Gln Gln His Leu Gln Asn Gln Met Asn Thr Asn Thr
100      105      110
Gln Arg Val Gln Gln Gly Gln Met Leu Glu Gln Pro Leu Pro Asn Thr
115      120      125
Asn Gly Gly Met Leu Gly Gly Gly Val Ser Gln Ser Ser Gly Gln Gln
130      135      140
His Met Leu Pro Thr Gln Gln Asn Gly Ser Met Leu Asn Lys
145      150      155

```

<210> 8876

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 8876

```

Ser Thr Ala Pro Val Ser Cys Lys Ile Leu Pro Asn Ile Ala Pro Ser
1      5      10      15
Ala Thr Thr Met Ala Arg Lys Pro Ser Val Pro Pro Ile Pro Phe Ser
20      25      30
Ile Val Ala Ala Ile Leu Ser Ser Gly Met Pro Glu Lys Arg Pro Ala
35      40      45
Pro Ile Glu Thr Thr Ile Lys Ala Thr Lys Ala Cys Ile Arg Ala Phe
50      55      60
Ile Thr Lys Asn Ser Ser Ser Asn Thr Glu Pro Thr Ala Val Lys Thr
65      70      75      80
Ser Val Asn Val Leu Lys Thr Tyr Cys Leu Leu Leu Ile Thr Ser Met
85      90      95
Val Leu Ala Thr Thr Pro Ser Ser Gly

```

100

105

<210> 8877

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 8877

```

Leu Thr Glu Ala Gln Gly Met Ser Glu Ile Val Ile Arg His Ala Glu
1      5      10      15
Pro Lys Asp Tyr Asp Ala Ile Arg Gln Ile His Ala Gln Pro Glu Val
20      25      30
Tyr His Asn Thr Leu Gln Val Pro His Pro Ser Met Glu Met Trp Gln
35      40      45
Met Arg Leu Gly Glu Gln Pro Gly Ile Lys Gln Leu Val Ala Cys Ile
50      55      60
Asp Asp Ile Val Val Gly His Leu Thr Ile Asp Val Ala Gln Arg Pro
65      70      75      80
Arg Arg Ser His Val Ala Asp Phe Gly Ile Cys Val Gly Ala Glu Trp
85      90      95
His Asn Arg Gly Val Ala Ser Ala Leu Ile Arg Thr Met Ile Asp Met
100     105     110
Cys Asp Asn Trp Leu Arg Val Asp Arg Ile Glu Leu Thr Val Phe Val
115     120     125
Asp Asn Glu Pro Ala Ile Ala Val Tyr Lys Lys His Gly Phe Glu Ile
130     135     140
Glu Gly Thr Gly Arg Arg Tyr Ala Leu Arg Asn Gly Glu Tyr Val Asp
145     150     155     160
Ala Tyr Tyr Met Ala Arg Met Lys
165

```

<210> 8878

<211> 512

<212> PRT

<213> Enterobacter cloacae

<400> 8878

```

Ala Leu Thr Lys Val His Glu Gly Val Met Glu Thr Lys Asp Leu Ile
1      5      10      15
Val Ile Gly Gly Gly Ile Asn Gly Ala Gly Ile Ala Val Asp Ala Ala
20      25      30
Gly Arg Gly Leu Ser Val Leu Met Leu Glu Ala Asn Asp Leu Ala Cys
35      40      45
Ala Thr Ser Ser Ala Ser Ser Lys Leu Ile His Gly Gly Leu Arg Tyr
50      55      60
Leu Glu His Tyr Glu Phe Arg Leu Val Ser Glu Ala Leu Ala Glu Arg
65      70      75      80
Glu Val Leu Leu Lys Met Ala Pro His Leu Ala Ile Pro Met Arg Phe
85      90      95
Arg Leu Pro His Arg Pro His Leu Arg Pro Ala Trp Met Ile Arg Ile
100     105     110
Gly Leu Phe Met Tyr Asp His Leu Gly Lys Arg Thr Ser Leu Pro Gly
115     120     125
Ser Thr Gly Leu Arg Phe Gly Ser Glu Ser Val Leu Lys Pro Glu Ile
130     135     140
Val Arg Gly Phe Glu Tyr Ser Asp Cys Trp Val Asp Asp Ala Arg Leu
145     150     155     160
Val Leu Ala Asn Ala Gln Met Val Glu Lys Lys Gly Gly Glu Val Lys
165     170     175
Thr Arg Thr Arg Ala Thr Ala Ala Arg Arg Glu Asn Gly Leu Trp Ile
180     185     190

```

Val Glu Ala Glu Asp Val Asp Thr Gly Glu Lys Phe Ser Trp Lys Ala
 195 200 205
 Arg Gly Leu Val Asn Ala Thr Gly Pro Trp Val Lys Gln Phe Phe Asp
 210 215 220
 Asp Gly Met His Leu Pro Ser Pro Tyr Gly Ile Arg Leu Ile Lys Gly
 225 230 235 240
 Ser His Ile Val Val Pro Arg Val His Thr Gln Lys Gln Ala Tyr Ile
 245 250 255
 Leu Gln Asn Glu Asp Lys Arg Ile Val Phe Val Ile Pro Trp Met Asp
 260 265 270
 Glu Phe Ser Ile Ile Gly Thr Thr Asp Val Glu Tyr Lys Gly Asp Pro
 275 280 285
 Lys Asn Val Glu Ile Asp Glu Ser Glu Val Ser Tyr Leu Leu Lys Val
 290 295 300
 Tyr Asn Ala His Phe Lys Lys Gln Leu Ala Arg Asp Asp Val Val Trp
 305 310 315 320
 Thr Tyr Ser Gly Val Arg Pro Leu Cys Asp Asp Glu Ser Asp Ser Pro
 325 330 335
 Gln Ala Ile Thr Arg Asp Tyr Thr Leu Asp Ile His Asp Val Asp Gly
 340 345 350
 Gln Ala Pro Leu Leu Ser Val Phe Gly Gly Lys Leu Thr Thr Tyr Arg
 355 360 365
 Lys Leu Ala Glu His Ala Leu Glu Lys Leu Ala Pro Tyr Tyr Lys Gly
 370 375 380
 Ile Gly Pro Ala Trp Thr Lys Gly Ala Val Leu Pro Gly Gly Asp Ile
 385 390 395 400
 Gly Asp Asn Arg Asp Asp Tyr Ala Ala Lys Leu Arg Arg Arg Phe Pro
 405 410 415
 Phe Ile Thr Glu Gly Met Ala Arg His Tyr Ala Arg Thr Tyr Gly Ser
 420 425 430
 Asn Thr Glu Leu Phe Leu Gly Asp Ala Lys Glu Ile Ala Asp Leu Gly
 435 440 445
 Glu His Phe Gly His Glu Leu Tyr Glu Ala Glu Leu Arg Tyr Leu Val
 450 455 460
 Glu His Glu Trp Val Arg Arg Leu Asp Asp Ala Ile Trp Arg Arg Thr
 465 470 475 480
 Lys Glu Gly Met Trp Leu Asn Ala Glu Gln Gln Ser Arg Val Ala Gln
 485 490 495
 Trp Leu Ala Gln His Ala Gly Lys Arg Glu Leu Ser Leu Ala Ser
 500 505 510

<210> 8879

<211> 200

<212> PRT

<213> Enterobacter cloacae

<400> 8879

Phe Lys Met Ser Glu Ile Ile Ser Ala Ala Val Leu Leu Ile Leu Ile
 1 5 10 15
 Met Asp Pro Leu Gly Asn Leu Pro Ile Phe Met Ser Val Leu Lys His
 20 25 30
 Thr Glu Pro Lys Arg Arg Arg Ala Ile Met Ile Arg Glu Leu Leu Ile
 35 40 45
 Ala Leu Leu Val Met Phe Ile Phe Leu Phe Ala Gly Glu Lys Ile Leu
 50 55 60
 Ala Phe Leu Asn Leu Arg Ala Glu Thr Val Ser Ile Ser Gly Gly Ile
 65 70 75 80
 Ile Leu Phe Leu Ile Ala Ile Lys Met Ile Phe Pro Ser Ala Glu Gly
 85 90 95
 Ser Ser Ser Gly Leu Pro Ala Gly Glu Glu Pro Phe Ile Val Pro Leu
 100 105 110

Ala Ile Pro Leu Val Ala Gly Pro Thr Ile Leu Ala Thr Leu Met Leu
 115 120 125
 Leu Ser His Gln Tyr Pro Asn Gln Met Ser His Leu Val Ile Ala Leu
 130 135 140
 Leu Ile Ala Trp Gly Gly Thr Phe Ile Ile Leu Leu Gln Ser Ser Leu
 145 150 155 160
 Phe Leu Arg Leu Leu Gly Glu Lys Gly Val Asn Ala Leu Glu Arg Leu
 165 170 175
 Met Gly Leu Ile Leu Val Met Met Ala Thr Gln Met Phe Leu Asp Gly
 180 185 190
 Ile Arg Ala Trp Met Lys Gly
 195 200

<210> 8880

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 8880

Gly Leu Ser Gln Arg Cys Ser Phe Gln Pro Pro Gly Glu Asp Pro Tyr
 1 5 10 15
 Asn Leu Asn Asp Leu Tyr Ser Asp Lys Ile Ser His Trp Ile Lys Met
 20 25 30
 Lys Thr Ile Glu Val Asp Asp Glu Leu Tyr Gln Tyr Ile Ala Ser Gln
 35 40 45
 Thr Arg His Ile Gly Glu Ser Ala Ser Asp Ile Leu Arg Arg Met Leu
 50 55 60
 Lys Ile Ser Ala Ala Ser Gln Pro Thr Pro Val Thr Lys Asp Val Val
 65 70 75 80
 Ser Gln Pro Ser Val Val Ala Gln Val Lys Pro Ala Val Met Pro Ala
 85 90 95
 Lys Asp Lys Val Arg Ala Met Arg Glu Leu Leu Leu Ser Asp Glu Tyr
 100 105 110
 Ala Glu Gln Lys Lys Ala Val Asn Arg Phe Met Leu Val Leu Ser Thr
 115 120 125
 Leu Tyr Ser Leu Asp Asn Asn Ala Phe Ala Glu Ala Thr Glu Ser Leu
 130 135 140
 His Gly Arg Thr Arg Val Tyr Phe Ala Gly Asp Glu Gln Thr Leu Leu
 145 150 155 160
 Gln Asn Gly Asn Gln Thr Lys Pro Lys His Val Pro Gly Thr Pro Tyr
 165 170 175
 Trp Val Ile Thr Asn Thr Asn Thr Gly Arg Lys Cys Ser Met Ile Glu
 180 185 190
 His Ile Met Gln Ser Met Gln Phe Pro Ala Glu Leu Ile Glu Lys Val
 195 200 205
 Cys Gly Thr Ile
 210

<210> 8881

<211> 555

<212> PRT

<213> Enterobacter cloacae

<400> 8881

Pro Leu His Gln Lys Asp Gln Ala Met Ala Asn His Ser Arg Ala Gly
 1 5 10 15
 Gln Pro Ala Gln Gln Arg Asp Leu Ile Asn Val Ala Gln Leu Thr Ala
 20 25 30
 Gln Tyr Tyr Val Leu Lys Pro Val Val Gly Asn Ala Gln His Ala Val
 35 40 45
 Lys Phe Gly Thr Ser Gly His Arg Gly Ser Ala Ala Arg His Ser Phe

50	55	60
Asn Glu Pro His Ile Leu Ala Ile Ala Gln Ala Ile Ala Glu Glu Arg		
65	70	75
Ala Lys Asn Gly Val Thr Gly Pro Cys Tyr Val Gly Lys Asp Thr His		
	85	90
Ala Leu Ser Glu Pro Ala Phe Ile Ser Val Leu Glu Val Leu Ala Ala		
	100	105
Asn Gly Val Asp Val Ile Val Gln Glu Asn Asn Gly Phe Thr Pro Thr		
	115	120
Pro Ala Val Ser Asn Ala Ile Leu Val His Asn Lys Lys Gly Gly Ala		
	130	135
Gln Ala Asp Gly Ile Val Ile Thr Pro Ser His Asn Pro Pro Glu Asp		
145	150	155
Gly Gly Ile Lys Tyr Asn Pro Pro Asn Gly Gly Pro Ala Asp Thr Asn		
	165	170
Val Thr Lys Val Val Glu Asp Arg Ala Asn Ala Leu Leu Ala Asn Gly		
	180	185
Leu Asn Gly Val Lys Arg Ile Ser Leu Asp Glu Ala Met Ala Ser Gly		
	195	200
His Val Lys Glu Gln Asp Leu Val Gln Pro Phe Val Glu Gly Leu Ala		
	210	215
Asp Ile Val Asp Met Ala Ala Ile Gln Lys Ala Gly Leu Lys Leu Gly		
225	230	235
Val Asp Pro Leu Gly Gly Ser Gly Ile Glu Tyr Trp Lys Arg Ile Ala		
	245	250
Glu His Tyr Lys Leu Asp Leu Thr Ile Val Asn Asp His Val Asp Gln		
	260	265
Thr Phe Arg Phe Met His Leu Asp Lys Asp Gly Ala Ile Arg Met Asp		
	275	280
Cys Ser Ser Glu Cys Ala Met Ala Gly Leu Leu Ala Leu Arg Asp Lys		
	290	295
Phe Asp Leu Ala Phe Ala Asn Asp Pro Asp Tyr Asp Arg His Gly Ile		
305	310	315
Val Thr Pro Ala Gly Leu Met Asn Pro Asn His Tyr Leu Ala Val Ala		
	325	330
Ile Asn Tyr Leu Phe Gln His Arg Pro Gln Trp Gly Lys Glu Val Ala		
	340	345
Val Gly Lys Thr Leu Val Ser Ser Ala Met Ile Asp Arg Val Val Asp		
	355	360
Ala Leu Gly Arg Lys Leu Val Glu Val Pro Val Gly Phe Lys Trp Phe		
	370	375
Val Asp Gly Leu His Asp Gly Ser Phe Gly Phe Gly Gly Glu Glu Ser		
385	390	395
Ala Gly Ala Ser Phe Leu Arg Phe Asp Gly Thr Pro Trp Ser Thr Asp		
	405	410
Lys Asp Gly Ile Ile Met Cys Leu Leu Ala Ala Glu Ile Thr Ala Val		
	420	425
Thr Gly Lys Asn Pro Gln Glu His Tyr Asn Glu Leu Ala Glu Arg Phe		
	435	440
Gly Ala Pro Ser Tyr Asn Arg Ile Gln Ala Gly Ala Thr Ser Ala Gln		
	450	455
Lys Ala Ala Leu Ser Lys Leu Ser Pro Glu Met Val Ser Ala Ser Thr		
465	470	475
Leu Ala Gly Asp Pro Ile Thr Ala Arg Leu Thr Ala Ala Pro Gly Asn		
	485	490
Gly Ala Ser Ile Gly Gly Leu Lys Val Met Thr Glu Asn Gly Trp Phe		
	500	505
Ala Ala Arg Pro Ser Gly Thr Glu Asp Ala Tyr Lys Ile Tyr Ser Glu		
	515	520
Ser Phe Leu Gly Ala Glu His Arg Gln Gln Ile Glu Lys Glu Ala Val		
	530	535
		540

Glu Ile Val Ser Glu Val Leu Lys Asn Ala
 545 550 555

<210> 8882
 <211> 101
 <212> PRT
 <213> Enterobacter cloacae

<400> 8882
 Val Val Lys Leu Gln Thr Lys Arg Tyr Tyr Phe Asn Gln Val Thr Asp
 1 5 10 15
 Phe Thr Phe Ser Gly Asp Gly Phe Arg Pro Thr Thr Gly Glu Lys Asn
 20 25 30
 Met Asp Leu Tyr Lys Glu Phe Pro Ala His Ile Ile Phe Met Arg Arg
 35 40 45
 Thr Phe Ala Val Val Ala Gly Val Leu Ala Leu Pro Val Met Leu Phe
 50 55 60
 Trp Lys Asp Arg Ala Arg Phe Tyr Ser Tyr Leu His Arg Val Trp Ala
 65 70 75 80
 Lys Thr Ser Glu Lys Pro Val Trp Met Asp Gln Ala Glu Lys Ala Thr
 85 90 95
 Cys Asp Phe Tyr
 100

<210> 8883
 <211> 375
 <212> PRT
 <213> Enterobacter cloacae

<400> 8883
 Ala Ala Pro Glu Arg Thr Gly Gly Gln Arg Gly Asp Trp Trp Arg Ala
 1 5 10 15
 Asn Gly Asn Leu Ser Ala Arg Phe Thr Gly Arg Leu Ala Ala Asp Trp
 20 25 30
 Ala His Val His Ala Val Ile Arg Thr Arg Pro Gly Arg Ala His Thr
 35 40 45
 Pro Ala Ser Gly Gly Tyr Ala Ala Leu Tyr Pro Ala Glu Gly Gly Ser
 50 55 60
 Met Leu Thr Leu Ile Arg Ala Gly Leu Tyr Thr Ser Val Gln Asp Ala
 65 70 75 80
 Gly Arg Phe Gly Leu Arg Gln Ser Gly Val Ser Tyr Cys Gly Ala Leu
 85 90 95
 Asp Arg Pro Ser Leu Glu Ile Ala Asn Leu Leu Val Gly Asn Ala Gly
 100 105 110
 Ser Thr Ala Ala Leu Glu Ile Thr Leu Gly Gln Cys Val Ile Glu Phe
 115 120 125
 Gly Gln Glu Ala Trp Phe Ala Leu Thr Gly Ala Gly Cys Asp Ala Thr
 130 135 140
 Leu Asp Gly Lys Ala Val Trp Thr Gly Trp Arg Leu Arg Ala Lys Ala
 145 150 155 160
 Gly Gln Arg Leu Thr Leu Lys Arg Pro Leu His Gly Val Arg Ser Tyr
 165 170 175
 Leu Ala Val Ala Gly Gly Ile Asp Val Pro Glu Val Leu Gly Ser Ser
 180 185 190
 Ser Thr Asp Gln Lys Ala Gly Met Gly Gly His Glu Gly Arg Leu Leu
 195 200 205
 Arg Asp Gly Asp Arg Leu Arg Ile Lys Thr Ser Thr Arg His Phe Thr
 210 215 220
 Thr Thr Gln Gly Val Lys Gln Leu Leu Trp Gly Asn Val Ile Arg Ala
 225 230 235 240
 Leu Pro Gly Pro Glu Tyr Gln Glu Phe Asp Glu Ala Ala Lys Glu Ser

				245					250					255			
Phe	Trp	Arg	Ser	Pro	Trp	Lys	Ile	Ser	Pro	Gln	Ser	Asn	Arg	Met	Gly		
			260					265						270			
Tyr	Arg	Leu	Gln	Gly	Gln	Pro	Leu	Thr	Arg	Thr	Thr	Asp	Arg	Glu	Leu		
		275					280					285					
Leu	Ser	His	Gly	Leu	Leu	Pro	Gly	Val	Ile	Gln	Val	Pro	Gly	Asn	Gly		
	290					295					300						
Gln	Pro	Ile	Val	Leu	Met	Asn	Asp	Ala	Gln	Thr	Thr	Gly	Gly	Tyr	Pro		
305					310					315					320		
Arg	Ile	Ala	Cys	Ile	Ile	Glu	Ala	Asp	Arg	Tyr	His	Leu	Ala	Gln	Ile		
			325					330						335			
Pro	Leu	Gly	Gln	Pro	Ile	His	Phe	Val	Gln	Cys	Ser	Leu	Glu	Glu	Ala		
		340						345					350				
Leu	Lys	Ala	Arg	Gln	Asp	Gln	Gln	Arg	Tyr	Leu	Glu	Gln	Leu	Ala	Trp		
	355					360						365					
Arg	Leu	Asp	Gly	Lys	Asp												
	370					375											

<210> 8884

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 8884

His	Leu	Glu	Ala	Met	Phe	Cys	Met	Thr	Arg	Ser	Tyr	Arg	Lys	Gly	Thr		
1				5				10					15				
Leu	Ser	Asp	Pro	His	Arg	Ser	Pro	Glu	Glu	Gly	Asn	Asn	Lys	Asn	Ser		
		20						25					30				
Met	Trp	Ala	Leu	Phe	Met	Ile	Arg	Asn	Val	Lys	Lys	Gln	Arg	Pro	Val		
	35					40						45					
Asn	Leu	Asp	Leu	Lys	Thr	Ile	Arg	Phe	Pro	Val	Thr	Ala	Ile	Ala	Ser		
	50					55					60						
Ile	Leu	His	Arg	Val	Ser	Gly	Val	Ile	Thr	Phe	Val	Ala	Val	Gly	Ile		
65					70					75					80		
Leu	Leu	Trp	Leu	Leu	Gly	Thr	Ser	Leu	Ser	Ser	Pro	Glu	Gly	Phe	Leu		
			85					90						95			
Gln	Ala	Ser	Ala	Ile	Met	Asn	Ser	Phe	Phe	Val	Lys	Phe	Ile	Met	Trp		
		100						105					110				
Gly	Ile	Leu	Thr	Ala	Leu	Ala	Tyr	His	Val	Val	Gly	Gly	Val	Arg	His		
	115						120					125					
Met	Leu	Met	Asp	Phe	Gly	Tyr	Leu	Glu	Glu	Thr	Phe	Glu	Ala	Gly	Lys		
	130					135					140						
Arg	Thr	Ala	Asn	Ile	Ser	Phe	Val	Ile	Thr	Val	Val	Leu	Ser	Leu	Leu		
145				150						155					160		
Ala	Gly	Val	Leu	Val	Trp												
				165													

<210> 8885

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 8885

Trp	Thr	Ile	Ala	Arg	Ser	Phe	Met	Pro	Thr	His	Leu	Val	Trp	Phe	Arg		
1				5				10					15				
Ala	Asp	Leu	Arg	Ile	His	Asp	Asn	Phe	Ala	Leu	Ala	Ala	Ala	Cys	Arg		
		20						25					30				
Ala	Lys	Asp	Ala	Asn	Val	Leu	Ala	Leu	Phe	Ile	Ala	Thr	Pro	Glu	Gln		
	35					40						45					
Trp	Arg	Gln	His	Asp	Met	Ala	Pro	Arg	Gln	Ala	Ala	Leu	Leu	Ser	Ala		
	50					55						60					

Tyr Leu Asn Asp Leu Gln His Ser Leu Ala Glu Lys Gly Ile Pro Leu
 65 70 75 80
 Ile Tyr Lys Glu Ala His Asp Phe Ala Ala Gln Arg Gln Thr Val Gln
 85 90 95
 Ala Ile Cys Gln Gln Tyr Ala Val Thr His Leu Tyr Tyr Asn Tyr Gln
 100 105 110
 Tyr Glu Phe Asn Glu Gln Gln Arg Asp Arg Gln Leu Glu Lys Ser Leu
 115 120 125
 Ala Gly Val Val Cys Glu Gly Phe Asp Asp Ser Val Met Leu Ala Pro
 130 135 140
 Gly Ser Val Met Thr Gly Ser His Glu Met Tyr Lys Val Phe Thr Pro
 145 150 155 160
 Phe Lys Asn Ala Phe Ile Lys Arg Leu Lys Glu Gly Leu Pro Glu Cys
 165 170 175
 Val Thr Ala Pro Ser Val Arg Gly Glu Thr Ile Thr Asp Leu Pro Ala
 180 185 190
 Ile Arg Leu Asn Tyr Pro Gln Gln Ser Phe Asp Glu Thr Val Phe Pro
 195 200 205
 Ala Ser Glu Lys Ala Ala Ile Ala Arg Leu Arg Gln Phe Cys Ala Gln
 210 215 220
 Gly Ala Val Glu Tyr Glu Ala Arg Arg Asp Phe Pro Ala Ile Glu Gly
 225 230 235 240
 Thr Ser Arg Leu Ser Ala Cys Leu Ala Leu Gly Ala Leu Ser Pro Arg
 245 250 255
 Gln Cys Leu His Arg Leu Leu Ala Glu Gln Pro Gln Ala Leu Asp Gly
 260 265 270
 Gly Ala Gly Ala Val Trp Leu Asn Glu Leu Ile Trp Arg Glu Phe Tyr
 275 280 285
 Arg His Leu Met Thr Tyr His Pro Asp Leu Cys Lys His Arg Pro Phe
 290 295 300
 Ile Arg Trp Thr Glu Gln Val Gln Trp Gln Ser Asn Glu Lys Leu Leu
 305 310 315 320
 Lys Ala Trp Gln His Gly Leu Thr Gly Phe Pro Ile Val Asp Ala Ala
 325 330 335
 Met Arg Gln Leu Asn Glu Thr Gly Trp Met His Asn Arg Leu Arg Met
 340 345 350
 Ile Thr Ala Ser Phe Leu Val Lys Asp Leu Leu Ile Asp Trp Arg Thr
 355 360 365
 Gly Glu Arg Tyr Phe Ile Ser Gln Leu Ile Asp Gly Asp Leu Ala Ala
 370 375 380
 Asn Asn Gly Gly Trp Gln Trp Ala Ala Ser Thr Gly Thr Asp Ala Ala
 385 390 395 400
 Pro Tyr Phe Arg Ile Phe Asn Pro Thr Thr Gln Gly Gln Arg Phe Asp
 405 410 415
 Ala Asp Gly Glu Phe Ile Arg Arg Trp Leu Pro Glu Leu Lys Asp Val
 420 425 430
 Pro Ala Lys Ala Ile His Glu Pro Trp Val Trp Ala Asp Lys Gln Arg
 435 440 445
 Val Thr Leu Asn Tyr Pro Arg Pro Ile Val Asp His Lys Gln Ala Arg
 450 455 460
 Val Ala Thr Leu Ala Ala Tyr Glu Ala Ala Arg Lys Val
 465 470 475

<210> 8886

<211> 219

<212> PRT

<213> Enterobacter cloacae

<400> 8886

Val Gln Arg Ala Arg Cys Tyr Leu Leu Gly Glu Thr Ala Val Val Leu
 1 5 10 15

Glu Leu Glu Pro Pro Val Thr Leu Ala Thr Gln Lys Arg Ile Trp Arg
 20 25 30
 Leu Ala Gln Arg Leu Pro Glu Leu Pro Gly Val Val Glu Ala Ile Pro
 35 40 45
 Gly Met Asn Asn Ile Thr Val Val Leu Arg Asp Pro His Thr Gly Ala
 50 55 60
 Leu Asp Ala Ile Glu Arg Leu Gln Arg Trp Trp Glu Glu Ser Glu Ala
 65 70 75 80
 Leu Glu Pro Glu Ser Arg Thr Ile Glu Ile Pro Val Val Tyr Gly Gly
 85 90 95
 Lys Gly Gly Pro Asp Leu Gly Val Val Ala Glu His Cys Gly Leu Thr
 100 105 110
 Glu Lys Gln Val Val Glu Leu His Ser Ser Val Asp Tyr Val Val Trp
 115 120 125
 Phe Leu Gly Phe Gln Pro Gly Phe Pro Tyr Leu Gly Gly Leu Ser Pro
 130 135 140
 Gln Leu His Thr Pro Arg Arg Ala Glu Pro Arg Leu Ser Val Pro Ala
 145 150 155 160
 Gly Ser Val Ala Ile Gly Gly Glu Gln Thr Gly Ile Tyr Pro Leu Ala
 165 170 175
 Ser Pro Gly Gly Trp Gln Leu Ile Gly His Thr Ser Thr Pro Leu Phe
 180 185 190
 Glu Pro Gly Gln Asp Ala Pro Ile Leu Leu Arg Pro Gly Asp Thr Leu
 195 200 205
 Arg Phe Ile Pro Gln Lys Glu Gly Val Cys
 210 215

<210> 8887

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 8887

Lys Pro Gly Arg Ile Ser Ser Val Ile Ser Asn Ser Trp Arg Gly Gly
 1 5 10 15
 Ser Met Val Lys Ile Asp Leu Asn Ala Asp Leu Gly Glu Gly Ser Ser
 20 25 30
 Ala Asp Ala Ala Leu Met Thr Leu Val Ser Ser Val Asn Ile Ala Cys
 35 40 45
 Gly Phe His Ala Gly Asp Ala Gln Thr Met Leu Ala Ser Val Arg Asn
 50 55 60
 Ala Met Lys Asn Gly Val Ala Ile Gly Ala His Pro Ser Phe Pro Asp
 65 70 75 80
 Arg Glu Asn Phe Gly Arg Thr Ala Met Asp Leu Pro Pro Glu Thr Val
 85 90 95
 Tyr Ala Gln Met Leu Tyr Gln Ile Gly Ala Leu Glu Ala Ile Val Arg
 100 105 110
 Ala Glu Asn Gly Val Leu Arg His Val Lys Pro His Gly Met Leu Tyr
 115 120 125
 Asn Gln Ala Ala Lys Asp Pro Val Leu Ala Asp Ala Ile Ala Arg Ala
 130 135 140
 Val Arg Asp Cys Asn Pro Arg Leu Val Leu Val Gly Leu Ala Gly Ser
 145 150 155 160
 Glu Leu Ile Arg Ala Gly Glu Arg Leu Gly Leu Ser Thr Arg Gln Glu
 165 170 175
 Val Phe Ala Asp Arg Gly Tyr Leu Pro Asp Gly Ser Leu Val Pro Arg
 180 185 190
 Thr Arg Ala Gly Ala Leu Ile Thr Asp Glu Gly Lys Ala Leu Ala Gln
 195 200 205
 Thr Leu Glu Met Val Arg Phe Gly Arg Val Thr Ser Thr Glu Gly Thr
 210 215 220

Thr Ala Asn Val Gln Ala Asp Thr Val Cys Leu His Gly Asp Gly Glu
 225 230 235 240
 His Ala Leu Gln Phe Ala Arg Arg Leu Arg Ala Ala Phe Ser Glu Glu
 245 250 255
 Gly Ile Val Val Ser Ala Glu
 260

<210> 8888

<211> 268

<212> PRT

<213> Enterobacter cloacae

<400> 8888

Lys Asp Asn Asn Met Pro Glu Gly Pro Glu Ile Arg Arg Ala Ala Asp
 1 5 10 15
 Ser Leu Glu Ala Ala Ile Lys Gly Lys Pro Leu Thr His Val Trp Phe
 20 25 30
 Ala Phe Pro Gln Leu Lys Pro Phe Glu Ser Gln Leu Val Gly Gln Thr
 35 40 45
 Val Thr His Ile Glu Thr Arg Gly Lys Ala Leu Leu Thr His Phe Ser
 50 55 60
 His Asn Leu Thr Leu Tyr Ser His Asn Gln Leu Tyr Gly Val Trp Arg
 65 70 75 80
 Val Val Glu Ala Asp Glu Gln Pro Gln Thr Thr Arg Val Leu Arg Val
 85 90 95
 Arg Leu Gln Thr Ala Asp Lys Ala Ile Leu Leu Tyr Ser Ala Ser Asp
 100 105 110
 Ile Glu Met Leu Thr Pro Glu Gln Leu Leu Thr His Pro Phe Leu Gln
 115 120 125
 Arg Val Gly Pro Asp Val Leu Asp Met Arg Leu Thr Ala Ser Asp Val
 130 135 140
 Lys Thr Arg Leu Leu Ser Pro Thr Phe Arg Asn Arg Gln Phe Ser Gly
 145 150 155 160
 Leu Leu Leu Asp Gln Ala Phe Leu Ala Gly Leu Gly Asn Tyr Leu Arg
 165 170 175
 Val Glu Ile Leu Trp Glu Val Gly Leu Ala Pro Gln His Lys Ala Ser
 180 185 190
 Gln Leu Ser Asp Glu Gln Leu Glu Ala Leu Ser His Ala Leu Leu Asp
 195 200 205
 Ile Pro Arg Leu Ser Tyr Asn Thr Arg Gly Met Val Asp Glu Asn Lys
 210 215 220
 His His Gly Ala Leu Phe Arg Phe Lys Val Phe His Arg Ala Gly Lys
 225 230 235 240
 Lys Cys Glu Arg Cys Gly Gly Ile Ile Asp Arg Ile Met Leu Ser Ser
 245 250 255
 Arg Pro Phe Tyr Trp Cys Pro His Cys Gln Lys
 260 265

<210> 8889

<211> 620

<212> PRT

<213> Enterobacter cloacae

<400> 8889

Thr Ala Gly Asp Ser Pro Ser Ala Ala Thr Asp Tyr Cys Cys Cys Ser
 1 5 10 15
 Ala Gly Leu Arg His Leu Trp Ile Cys Cys Gly Val Gly Cys Val Met
 20 25 30
 Lys Leu Pro Val Arg Glu Phe Asp Ala Val Val Ile Gly Ala Gly Gly
 35 40 45
 Ala Gly Met Arg Ala Ala Leu Gln Ile Ser Gln Ser Gly Gln Thr Cys

50	55	60
Ala 65	Leu 70	Leu 75
Gln 85	Gly 90	Gly 95
Glu 100	Trp 105	His 110
Gln 115	Asp 120	Pro 125
Glu 130	Leu 135	Leu 140
Ile 145	Tyr 150	Asn 155
Gln 165	Ala 170	Arg 175
Leu 180	His 185	Thr 190
Ser 195	Glu 200	Ala 205
Val 210	Gly 215	Val 220
Lys 225	Ala 230	Gly 235
Gln 245	Ser 250	Thr 255
Ala 260	Ile 265	Met 270
His 275	Pro 280	Val 285
Arg 290	Gly 295	His 300
Glu 305	Arg 310	Ala 315
Ala 325	Arg 330	Gly 335
Pro 340	Trp 345	His 350
Val 355	Leu 360	Leu 365
Ala 370	His 375	Val 380
His 385	Tyr 390	Val 395
Thr 405	Val 410	Ile 415
Val 420	Gly 425	Ala 430
Gly 435	Asn 440	Arg 445
His 450	Leu 455	Leu 460
Asp 465	Asp 470	Asn 475
Asn 485	Arg 490	Lys 495
Cys 500	Met 505	Gly 510
Lys 515	Gly 520	Leu 525
Arg 530	Leu 535	Gln 540

Leu Glu Leu Asp Asn Leu Met Glu Thr Ala Phe Ala Thr Ala Met Ser
 545 550 555 560
 Ala Asn Phe Arg Thr Glu Ser Arg Gly Ala His Ser Arg Phe Asp Phe
 565 570 575
 Pro Asp Arg Asp Asp Glu Asn Trp Leu Cys His Ser Leu Tyr Leu Pro
 580 585 590
 Glu Ser Glu Thr Met Thr Arg Arg Ser Val Asn Met Glu Pro Lys Leu
 595 600 605
 Arg Pro Ala Phe Pro Pro Lys Ile Arg Thr Tyr
 610 615 620

<210> 8890

<211> 244

<212> PRT

<213> Enterobacter cloacae

<400> 8890

Cys Gly Asp Arg Ile Met Lys Leu Glu Phe Ser Val Tyr Arg Tyr Asn
 1 5 10 15
 Pro Asp Val Asp Asp Ala Pro Arg Met Gln Asp Tyr Thr Leu Glu Ala
 20 25 30
 Glu Glu Gly Arg Asp Met Met Leu Leu Asp Ala Leu Ile Gln Leu Lys
 35 40 45
 Glu Lys Asp Pro Thr Leu Ser Phe Arg Arg Ser Cys Arg Glu Gly Val
 50 55 60
 Cys Gly Ser Asp Gly Val Asn Met Asn Gly Lys Asn Gly Leu Ala Cys
 65 70 75 80
 Ile Thr Pro Ile Ser Ala Leu Asn Arg Pro Gly Gln Lys Ile Val Ile
 85 90 95
 Arg Pro Leu Pro Gly Leu Pro Val Val Arg Asp Leu Val Val Asp Met
 100 105 110
 Gly Gln Phe Tyr Ala Gln Tyr Glu Lys Ile Lys Pro Tyr Leu Leu Asn
 115 120 125
 Asn Gly Gln Asn Pro Pro Ala Arg Glu His Leu Gln Ser Pro Glu Gln
 130 135 140
 Arg Glu Lys Leu Asp Gly Leu Tyr Glu Cys Ile Leu Cys Ala Cys Cys
 145 150 155 160
 Ser Thr Ser Cys Pro Ser Phe Trp Trp Asn Pro Asp Lys Phe Ile Gly
 165 170 175
 Pro Ala Gly Leu Leu Ala Ala Tyr Arg Phe Leu Ile Asp Ser Arg Asp
 180 185 190
 Thr Glu Thr Glu Asn Arg Leu Glu Gly Leu Ser Asp Ala Phe Ser Val
 195 200 205
 Phe Arg Cys His Ser Ile Met Asn Cys Val Ser Val Cys Pro Lys Gly
 210 215 220
 Leu Asn Pro Thr Arg Ala Ile Gly His Ile Lys Ser Met Leu Leu Gln
 225 230 235 240
 Arg Ser Ala

<210> 8891

<211> 420

<212> PRT

<213> Enterobacter cloacae

<400> 8891

Arg Ala Glu Arg Arg Leu Ile Lys Gly Tyr Ile Met Ser Ser Val Asp
 1 5 10 15
 Ile Leu Val Pro Asp Leu Pro Glu Ser Val Ala Asp Ala Thr Val Ala
 20 25 30
 Thr Trp His Lys Lys Pro Gly Asp Ala Val Thr Arg Asp Glu Val Leu

```

      35      40      45
Val Glu Ile Glu Thr Asp Lys Val Val Leu Glu Val Pro Ala Ser Ala
  50      55      60
Asp Gly Ile Leu Asp Ala Val Leu Glu Asp Glu Gly Thr Thr Val Thr
  65      70      75      80
Ser Arg Gln Ile Leu Gly Arg Leu Arg Glu Gly Asn Ser Ala Gly Lys
      85      90      95
Glu Ser Ser Ala Lys Ser Glu Glu Lys Ala Ser Thr Pro Ala Gln Arg
      100      105      110
Gln Gln Ala Ser Leu Ser Asp Gln Thr Asn Asp Ala Leu Ser Pro Ala
      115      120      125
Ile Arg Arg Leu Leu Ala Glu His Ser Leu Asp Pro Ala Ala Ile Lys
      130      135      140
Gly Thr Gly Val Gly Gly Arg Leu Thr Arg Glu Asp Ile Asp Lys His
      145      150      155      160
Leu Ala Lys Ala Pro Ser Glu Ala Lys Ala Glu Ala Lys Ala Pro Ala
      165      170      175
Ala Ala Pro Ala Ala Gln Pro Ala Leu Gly Ala Arg Ser Glu Lys Arg
      180      185      190
Val Pro Met Thr Arg Leu Arg Lys Arg Val Ala Glu Arg Leu Leu Glu
      195      200      205
Ala Lys Asn Ser Thr Ala Met Leu Thr Thr Phe Asn Glu Val Asn Met
      210      215      220
Lys Pro Ile Met Asp Leu Arg Lys Gln Tyr Gly Asp Ala Phe Glu Lys
      225      230      235      240
Arg His Gly Ile Arg Leu Gly Phe Met Ser Phe Tyr Val Lys Ala Val
      245      250      255
Val Glu Ala Leu Lys Arg Tyr Pro Glu Val Asn Ala Ser Ile Asp Gly
      260      265      270
Asp Asp Val Val Tyr His Asn Tyr Phe Asp Val Ser Met Ala Val Ser
      275      280      285
Thr Pro Arg Gly Leu Val Thr Pro Val Leu Arg Asp Val Asp Thr Leu
      290      295      300
Gly Met Ala Asp Ile Glu Lys Lys Ile Lys Glu Leu Ala Val Lys Gly
      305      310      315      320
Arg Asp Gly Lys Leu Thr Val Glu Asp Leu Thr Gly Gly Asn Phe Thr
      325      330      335
Ile Thr Asn Gly Gly Val Phe Gly Ser Leu Met Ser Thr Pro Ile Ile
      340      345      350
Asn Pro Pro Gln Ser Ala Ile Leu Gly Met His Ala Ile Lys Asp Arg
      355      360      365
Pro Met Ala Val Asp Gly Lys Val Glu Ile Leu Pro Met Met Tyr Leu
      370      375      380
Ala Leu Ser Tyr Asp His Arg Leu Ile Asp Gly Arg Glu Ser Val Gly
      385      390      395      400
Phe Leu Val Ala Ile Lys Glu Leu Leu Glu Asp Pro Thr Arg Leu Leu
      405      410      415
Leu Asp Val
      420

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<210> 8892

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 8892

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Gln Arg Pro Glu Tyr Tyr Cys Ser Glu Lys Ser Asp Gly Cys Ser Ser
  1      5      10      15
Ala Gly Cys Cys Arg Ser Gly Gly Glu Ile Met Ser Val Leu Ile Asn
      20      25      30
Lys Asp Thr Lys Val Ile Cys Gln Gly Phe Thr Gly Ser Gln Gly Thr

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<210> 8893
<211> 562
<212> PRT
<213> Enterobacter cloacae
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Gln	Glu	Thr	Lys	Met	Lys	Ala	Val	Ser	Arg	Val	His	Ile	Thr	Pro	His
1				5					10					15	
Met	His	Trp	Asp	Arg	Glu	Trp	Tyr	Phe	Thr	Thr	Glu	Ala	Ser	Arg	Ile
			20					25					30		
Leu	Leu	Val	Asn	Asn	Met	Glu	Glu	Ile	Leu	Thr	Arg	Leu	Glu	Gln	Asp
		35					40					45			
Ala	Glu	Tyr	Lys	Tyr	Tyr	Val	Leu	Asp	Gly	Gln	Thr	Ala	Val	Leu	Glu
	50					55					60				
Asp	Tyr	Phe	Ala	Val	Lys	Pro	Glu	Asn	Arg	Pro	Arg	Val	Lys	Ala	Leu
65					70					75					80
Val	Ala	Ala	Gly	Lys	Leu	Ile	Ile	Gly	Pro	Trp	Tyr	Thr	Gln	Thr	Asp
				85					90					95	
Thr	Thr	Leu	Val	Ser	Gly	Glu	Ser	Ile	Val	Arg	Asn	Leu	Met	Tyr	Gly
			100					105					110		
Ile	Arg	Asp	Cys	Leu	Ala	Phe	Gly	Glu	Pro	Met	Lys	Ile	Gly	Tyr	Leu
		115					120					125			
Pro	Asp	Ser	Phe	Gly	Met	Ser	Ser	Gln	Leu	Pro	His	Ile	Tyr	Asn	Gly
	130					135					140				
Phe	Gly	Ile	Thr	Arg	Thr	Met	Phe	Trp	Arg	Gly	Cys	Ser	Glu	Arg	His

145 150 155 160
 Gly Thr Asp Lys Thr Glu Phe Leu Trp Gln Ser Gln Asp Gly Ser Glu
 165 170 175
 Val Thr Ala Gln Val Leu Pro Leu Gly Tyr Ala Ile Gly Lys Tyr Leu
 180 185 190
 Pro Glu Asp Glu Ala Gly Leu Arg Lys Arg Leu Asp Thr Tyr Phe Glu
 195 200 205
 Val Leu Glu Lys Ala Ser Val Thr Lys Glu Ile Leu Leu Pro Asn Gly
 210 215 220
 His Asp Gln Met Pro Leu Gln Gln Asn Ile Phe Ala Val Met Asp Lys
 225 230 235 240
 Leu Arg Glu Ile Tyr Pro Gln Arg Gln Phe Val Met Ser Arg Phe Glu
 245 250 255
 Glu Val Phe Asp His Ile Asp Ala His Arg Asp Glu Leu Ala Thr Leu
 260 265 270
 Lys Gly Glu Phe Ile Asp Gly Lys Tyr Met Arg Val His Arg Thr Ile
 275 280 285
 Gly Ser Thr Arg Met Asp Ile Lys Ile Ala His Ala Arg Ile Glu Asn
 290 295 300
 Lys Ile Val Asn Val Leu Glu Pro Leu Ala Thr Leu Ala Trp Thr Leu
 305 310 315 320
 Gly Phe Glu Tyr His His Gly Leu Leu Glu Lys Met Trp Lys Glu Ile
 325 330 335
 Leu Lys Asn His Ala His Asp Ser Ile Gly Cys Cys Gys Ser Asp Lys
 340 345 350
 Val His Arg Glu Val Met Ser Arg Phe Glu Leu Ala Glu Asp Met Ala
 355 360 365
 Asp Asn Leu Thr Cys Phe Tyr Met Arg Lys Ile Val Asp Asn Met Pro
 370 375 380
 Gln Cys Glu Glu Asp Lys Leu Val Met Phe Asn Leu Thr Pro Trp Pro
 385 390 395 400
 Arg Glu Glu Val Ile Asn Thr Thr Ile Arg Leu Arg Ala Ser Gln Phe
 405 410 415
 Arg Leu Leu Asp Asp Arg Gly Asn Glu Ile Pro Tyr Cys Leu Arg Ser
 420 425 430
 Ala Arg Glu Ile Asp Pro Gly Leu Ile Asp Arg Gln Ile Val His Tyr
 435 440 445
 Gly Asn Tyr Asp Pro Phe Met Glu Phe Asp Ile Gln Leu Asn Gln Ile
 450 455 460
 Leu Pro Ser Met Gly Tyr Arg Thr Leu Tyr Ile Glu Pro His Val Ala
 465 470 475 480
 Gly Lys Leu Leu Ala Pro Glu Thr Thr Ser Glu Ala Leu Leu Glu Asn
 485 490 495
 Ala Phe Trp Glu Ile Thr Leu Asn Asp Asp Gly Thr Leu Arg Leu Leu
 500 505 510
 Asp Lys Ala Ser Gly Leu Ile Tyr Asp Arg Ala Leu Glu Ile Glu Glu
 515 520 525
 Ser Ser Asp Asp Gly Asp Glu Tyr Asp Tyr Ser Pro Ser Arg Glu Glu
 530 535 540
 Trp Arg Leu Thr Ser Ala Gln Ala Tyr Phe Thr Thr Arg Pro Arg Ser
 545 550 555 560
 Ser Arg

<210> 8894

<211> 278

<212> PRT

<213> Enterobacter cloacae

<400> 8894

Thr Ile Pro Val Pro Leu Ser Thr Ile Asn Arg Arg Ala Ser Pro Arg

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<210> 8895
<211> 133
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<210> 8896
 <211> 939
 <212> PRT
 <213> Enterobacter cloacae

<400> 8896

Gly	Ile	Thr	Met	Gln	Asn	Gly	Ala	Met	Lys	Ala	Trp	Leu	Asp	Ser	Ser
1				5					10					15	
Tyr	Leu	Ser	Gly	Ser	Asn	Gln	Ser	Trp	Ile	Glu	Gln	Leu	Tyr	Glu	Asp
			20					25					30		
Phe	Leu	Thr	Asp	Pro	Asp	Ser	Val	Asp	Ala	Asn	Trp	Arg	Ser	Met	Phe
		35					40					45			
Gln	Gln	Leu	Pro	Gly	Thr	Gly	Val	Lys	Pro	Asp	Gln	Phe	His	Ser	Lys
	50					55					60				
Thr	Arg	Asp	Tyr	Phe	Arg	Arg	Leu	Ala	Lys	Asp	Ala	Ser	Arg	Tyr	Ser
65					70					75					80
Ser	Ala	Ile	Ser	Asp	Pro	Asp	Thr	Asn	Ala	Lys	Gln	Val	Lys	Val	Leu
				85					90					95	
Gln	Leu	Ile	Asn	Ala	Tyr	Arg	Phe	Arg	Gly	His	Gln	His	Ala	Asn	Leu
			100					105					110		
Asp	Pro	Leu	Gly	Leu	Trp	Gln	Gln	Glu	Arg	Val	Ala	Asp	Leu	Asp	Pro
	115						120					125			
Ala	Tyr	His	Asp	Leu	Thr	Glu	Ala	Asp	Phe	Gln	Glu	Ser	Phe	Asn	Val
	130					135					140				
Gly	Ser	Phe	Ala	Ile	Gly	Lys	Asp	Thr	Met	Lys	Leu	Gly	Asp	Leu	Ile
145					150					155					160
Asp	Ala	Leu	Lys	Gln	Thr	Tyr	Cys	Gly	Ser	Ile	Gly	Ala	Glu	Tyr	Met
				165					170					175	
His	Ile	Thr	Ser	Thr	Glu	Glu	Lys	Arg	Trp	Ile	Gln	Gln	Arg	Ile	Glu
			180					185					190		
Ser	Val	Ala	Gly	His	Ala	Asn	Phe	Ser	Ala	Glu	Glu	Lys	Lys	Arg	Phe
		195					200					205			
Leu	Ser	Glu	Leu	Thr	Ala	Ala	Glu	Gly	Leu	Glu	Arg	Tyr	Leu	Gly	Ala
	210					215					220				
Lys	Phe	Pro	Gly	Ala	Lys	Arg	Phe	Ser	Leu	Glu	Gly	Gly	Asp	Ala	Leu
225					230					235					240
Val	Pro	Met	Leu	Lys	Glu	Leu	Ile	Arg	His	Ala	Gly	Lys	Ser	Gly	Thr
				245					250					255	
Arg	Glu	Val	Val	Leu	Gly	Met	Ala	His	Arg	Gly	Arg	Leu	Asn	Val	Leu
			260					265					270		
Val	Asn	Val	Leu	Gly	Lys	Lys	Pro	Gln	Asp	Leu	Phe	Asp	Glu	Phe	Ala
		275					280					285			
Gly	Lys	His	Lys	Glu	His	Leu	Gly	Thr	Gly	Asp	Val	Lys	Tyr	His	Met
	290				295						300				
Gly	Phe	Ser	Ser	Asp	Ile	Glu	Thr	Glu	Gly	Gly	Gln	Val	His	Leu	Ala
305					310					315					320
Leu	Ala	Phe	Asn	Pro	Ser	His	Leu	Glu	Ile	Val	Ser	Pro	Val	Val	Ile
			325						330					335	
Gly	Ser	Val	Arg	Ala	Arg	Leu	Asp	Arg	Leu	Asp	Glu	Pro	Ser	Ser	Asn
			340					345					350		
Lys	Val	Leu	Pro	Ile	Thr	Ile	His	Gly	Asp	Ala	Ala	Val	Thr	Gly	Gln
	355						360					365			
Gly	Val	Val	Gln	Glu	Thr	Leu	Asn	Met	Ser	Lys	Ala	Arg	Gly	Tyr	Glu
	370					375					380				
Val	Gly	Gly	Thr	Val	Arg	Ile	Val	Ile	Asn	Asn	Gln	Val	Gly	Phe	Thr
385					390					395					400
Thr	Ser	Asn	Pro	Leu	Asp	Ala	Arg	Ser	Thr	Pro	Tyr	Cys	Thr	Asp	Ile
				405					410					415	
Gly	Lys	Met	Val	Gln	Ala	Pro	Ile	Phe	His	Val	Asn	Ala	Asp	Asp	Pro
			420					425					430		
Glu	Ala	Val	Ala	Phe	Val	Thr	Arg	Leu	Ala	Leu	Asp	Phe	Arg	Asn	Thr

435					440					445					
Phe	Lys	Arg	Asp	Val	Phe	Ile	Asp	Leu	Phe	Cys	Tyr	Arg	Arg	His	Gly
450					455					460					
His	Asn	Glu	Ala	Asp	Glu	Pro	Ser	Ala	Thr	Gln	Pro	Leu	Met	Tyr	Gln
465					470					475					480
Lys	Ile	Lys	Lys	His	Pro	Thr	Pro	Arg	Lys	Ile	Tyr	Ala	Asp	Lys	Leu
				485					490					495	
Glu	Ser	Glu	Lys	Val	Ala	Thr	Leu	Glu	Asp	Ala	Thr	Glu	Met	Val	Asn
			500					505					510		
Leu	Tyr	Arg	Asp	Ala	Leu	Asp	Ala	Gly	Glu	Cys	Val	Val	Lys	Glu	Leu
	515					520					525				
Arg	Pro	Met	Asn	Met	His	Ser	Phe	Thr	Trp	Ser	Pro	Tyr	Leu	Asn	His
	530					535					540				
Glu	Trp	Asp	Glu	Ser	Tyr	Pro	Asn	Lys	Val	Glu	Met	Lys	Arg	Leu	Gln
545				550					555						560
Glu	Leu	Ala	Lys	Arg	Ile	Ser	Thr	Val	Pro	Glu	Ala	Ile	Glu	Met	Gln
			565					570						575	
Ser	Arg	Val	Ala	Lys	Ile	Tyr	Gly	Asp	Arg	Gln	Ala	Met	Ala	Ala	Gly
		580					585					590			
Glu	Lys	Leu	Phe	Asp	Trp	Gly	Gly	Ala	Glu	Thr	Leu	Ala	Tyr	Ala	Thr
	595					600					605				
Leu	Val	Asp	Glu	Gly	Ile	Pro	Val	Arg	Leu	Ser	Gly	Glu	Asp	Ala	Gly
	610					615					620				
Arg	Gly	Thr	Phe	Phe	His	Arg	His	Ala	Val	Val	His	Asn	Gln	Ser	Asn
625				630					635						640
Gly	Ser	Thr	Tyr	Thr	Pro	Leu	Gln	His	Val	His	Asn	Gly	Gln	Gly	Gln
			645					650						655	
Phe	Lys	Val	Trp	Asp	Ser	Val	Leu	Ser	Glu	Glu	Ala	Val	Leu	Ala	Phe
		660					665					670			
Glu	Tyr	Gly	Tyr	Ala	Thr	Ala	Glu	Pro	Arg	Thr	Leu	Thr	Ile	Trp	Glu
	675					680					685				
Ala	Gln	Phe	Gly	Asp	Phe	Ala	Asn	Gly	Ala	Gln	Val	Val	Ile	Asp	Gln
	690					695					700				
Phe	Ile	Ser	Ser	Gly	Glu	Gln	Lys	Trp	Gly	Arg	Met	Cys	Gly	Leu	Val
705				710					715						720
Met	Leu	Leu	Pro	His	Gly	Tyr	Glu	Gly	Gln	Gly	Pro	Glu	His	Ser	Ser
			725					730						735	
Ala	Arg	Leu	Glu	Arg	Tyr	Leu	Gln	Leu	Cys	Ala	Glu	Gln	Asn	Met	Gln
		740					745					750			
Val	Cys	Val	Pro	Ser	Thr	Pro	Ala	Gln	Val	Tyr	His	Met	Leu	Arg	Arg
	755					760					765				
Gln	Ala	Leu	Arg	Gly	Met	Arg	Arg	Pro	Leu	Val	Val	Met	Ser	Pro	Lys
	770					775					780				
Ser	Leu	Leu	Arg	His	Pro	Leu	Ala	Val	Ser	Ser	Leu	Glu	Glu	Leu	Ala
785				790					795						800
Asn	Gly	Thr	Phe	Leu	Pro	Ala	Ile	Gly	Glu	Ile	Asp	Glu	Leu	Asp	Pro
			805					810						815	
Gln	Ala	Val	Lys	Arg	Val	Val	Met	Cys	Ser	Gly	Lys	Val	Tyr	Tyr	Asp
		820					825					830			
Leu	Leu	Glu	Gln	Arg	Arg	Lys	Asn	Asp	Gln	Lys	Asp	Val	Ala	Ile	Val
	835					840					845				
Arg	Ile	Glu	Gln	Leu	Tyr	Pro	Phe	Pro	His	Gln	Ala	Met	Gln	Glu	Val
	850					855					860				
Leu	Lys	Gln	Tyr	Ala	His	Val	His	Asp	Phe	Val	Trp	Cys	Gln	Glu	Glu
865				870					875						880
Pro	Leu	Asn	Gln	Gly	Ala	Trp	Tyr	Cys	Ser	Gln	His	His	Phe	Arg	Glu
			885					890						895	
Val	Ile	Pro	Phe	Gly	Ser	Ala	Leu	Arg	Tyr	Ala	Gly	Arg	Pro	Ala	Ser
		900					905					910			
Ala	Ser	Pro	Ala	Val	Gly	Tyr	Met	Ser	Val	His	Gln	Lys	Gln	Gln	Gln
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Asp Leu Val Asn Asp Ala Leu Asn Val Asp
 930 935

<210> 8897
 <211> 398
 <212> PRT
 <213> Enterobacter cloacae

<400> 8897

Arg	Leu	Pro	Glu	Gly	Trp	Ile	Glu	His	Met	Asn	Leu	His	Glu	Tyr	Gln
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Ala	Lys	Gln	Leu	Phe	Ala	Arg	Tyr	Gly	Leu	Pro	Ala	Pro	Val	Gly	Tyr
			20					25					30		
Ala	Cys	Thr	Thr	Pro	Arg	Glu	Ala	Glu	Glu	Ala	Ala	Ser	Lys	Ile	Gly
			35					40					45		
Ala	Gly	Pro	Trp	Val	Val	Lys	Cys	Gln	Val	His	Ala	Gly	Gly	Arg	Gly
			50				55					60			
Lys	Ala	Gly	Gly	Val	Lys	Val	Val	Lys	Ser	Lys	Glu	Glu	Ile	Arg	Ala
65						70				75					80
Phe	Ala	Glu	His	Trp	Leu	Gly	Lys	Arg	Leu	Val	Thr	Tyr	Gln	Thr	Asp
				85					90					95	
Ala	Asn	Gly	Gln	Pro	Val	Asn	Gln	Ile	Leu	Val	Glu	Ala	Ala	Thr	Asp
			100					105						110	
Ile	Ala	Lys	Glu	Leu	Tyr	Leu	Gly	Ala	Val	Val	Asp	Arg	Ser	Ser	Arg
			115				120					125			
Arg	Val	Val	Phe	Met	Ala	Ser	Thr	Glu	Gly	Gly	Val	Glu	Ile	Glu	Lys
			130				135					140			
Val	Ala	Glu	Glu	Thr	Pro	His	Leu	Ile	His	Lys	Val	Ala	Ile	Asp	Pro
145					150					155					160
Leu	Ala	Gly	Pro	Met	Pro	Tyr	Gln	Gly	Arg	Glu	Leu	Ala	Phe	Lys	Leu
				165					170					175	
Gly	Leu	Glu	Gly	Lys	Leu	Val	Gln	Gln	Phe	Thr	Lys	Ile	Phe	Met	Gly
			180					185					190		
Leu	Ala	Thr	Ile	Phe	Leu	Glu	Arg	Asp	Leu	Ala	Leu	Ile	Glu	Ile	Asn
			195				200					205			
Pro	Leu	Val	Ile	Thr	Thr	Gln	Gly	Asp	Leu	Ile	Cys	Leu	Asp	Gly	Lys
			210			215					220				
Leu	Gly	Ala	Asp	Gly	Asn	Ala	Leu	Phe	Arg	Gln	Ser	Asp	Leu	Arg	Glu
225					230					235					240
Met	Arg	Asp	Gln	Ser	Gln	Glu	Asp	Pro	Arg	Glu	Ala	Gln	Ala	Ala	Gln
				245					250					255	
Trp	Glu	Leu	Asn	Tyr	Val	Ala	Leu	Asp	Gly	Asn	Ile	Gly	Cys	Met	Val
			260					265					270		
Asn	Gly	Ala	Gly	Leu	Ala	Met	Gly	Thr	Met	Asp	Ile	Val	Lys	Leu	His
			275				280					285			
Gly	Gly	Glu	Pro	Ala	Asn	Phe	Leu	Asp	Val	Gly	Gly	Gly	Ala	Thr	Lys
			290			295				300					
Glu	Arg	Val	Thr	Glu	Ala	Phe	Lys	Ile	Ile	Leu	Ser	Asp	Ser	Asn	Val
305					310					315					320
Lys	Ala	Val	Leu	Val	Asn	Ile	Phe	Gly	Gly	Ile	Val	Arg	Cys	Asp	Leu
				325					330					335	
Ile	Ala	Asp	Gly	Ile	Ile	Gly	Ala	Val	Glu	Glu	Val	Gly	Val	Asn	Val
			340					345					350		
Pro	Val	Val	Val	Arg	Leu	Glu	Gly	Asn	Asn	Ala	Glu	Leu	Gly	Ala	Lys
			355				360					365			
Lys	Leu	Ala	Asp	Ser	Gly	Leu	Asn	Ile	Ile	Ala	Ala	Lys	Ser	Leu	Thr
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Asp	Ala	Ala	Gln	Gln	Val	Val	Ala	Ala	Val	Glu	Gly	Lys			
385					390					395					

<210> 8898

<211> 643
 <212> PRT
 <213> Enterobacter cloacae

<400> 8898

Gly	Arg	Ile	Phe	Met	Asn	Leu	Thr	Thr	Leu	Thr	Asp	Pro	Arg	Ala	Val
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Cys	Val	Gln	Ala	Gln	Phe	Thr	Ser	Arg	Asp	Glu	Ala	Ile	Arg	Gln	Leu
			20					25					30		
Ala	Thr	Arg	Leu	Val	Ala	Leu	Gly	Lys	Ile	Ala	Asp	Ala	Asp	Thr	Phe
		35					40				45				
Leu	Ala	Glu	Val	Phe	His	Arg	Glu	Ser	Leu	Gly	Pro	Thr	Ala	Leu	Gly
	50					55					60				
Glu	Gly	Leu	Ala	Val	Pro	His	Gly	Lys	Ser	Ala	Ala	Val	Lys	Glu	Ala
65					70					75					80
Ala	Phe	Ala	Val	Ala	Thr	Leu	Cys	Glu	Pro	Leu	Ala	Trp	Glu	Gly	Val
				85					90					95	
Asp	Gly	Pro	Glu	Glu	Val	Glu	Leu	Ile	Phe	Leu	Leu	Ala	Ile	Pro	Pro
			100					105					110		
Ala	Gln	Ala	Gly	Ser	Thr	His	Ile	Gln	Val	Leu	Thr	Glu	Leu	Thr	Ser
		115					120					125			
Arg	Leu	Ala	Asp	Asp	Asp	Leu	Arg	Gly	Arg	Val	Met	Thr	Ala	Thr	Ser
	130					135					140				
Ala	Glu	Ala	Val	Leu	Ala	Ala	Leu	Glu	Thr	Ala	Pro	Asp	Ala	Gln	Glu
145					150					155					160
Thr	Ala	Val	Ala	Glu	Asn	Ala	Pro	Thr	Ile	Val	Cys	Val	Thr	Ala	Cys
				165					170					175	
Pro	Ala	Gly	Ile	Ala	His	Thr	Tyr	Met	Ala	Ala	Glu	Tyr	Leu	Glu	Lys
		180					185						190		
Ala	Gly	Arg	Lys	Leu	Gly	Val	Asn	Val	Val	Val	Glu	Lys	Gln	Gly	Ala
	195						200					205			
Asn	Gly	Ile	Glu	Gly	Arg	Ile	Thr	Ala	Gln	Gln	Leu	Gln	Glu	Ala	Lys
	210					215					220				
Ala	Cys	Ile	Phe	Ala	Ala	Glu	Val	Ala	Ile	Lys	Glu	Arg	Glu	Arg	Phe
225					230					235					240
Gln	Gly	Ile	Pro	Ala	Ile	Ser	Val	Pro	Val	Ala	Glu	Pro	Leu	Arg	His
				245					250					255	
Ala	Glu	Ala	Leu	Ile	Glu	Arg	Ala	Leu	Ala	Leu	Gln	Pro	Val	Ser	Asp
			260					265					270		
Ala	Arg	Pro	Ala	His	Val	Asp	Thr	Asp	Ala	Lys	Lys	Cys	Val	Lys	Thr
	275						280					285			
Glu	Leu	Lys	Gln	Ala	Leu	Leu	Ser	Gly	Ile	Ser	Phe	Ala	Val	Pro	Leu
	290					295					300				
Ile	Val	Ala	Gly	Gly	Thr	Val	Leu	Ala	Val	Ser	Val	Leu	Leu	Ala	Gln
305					310					315					320
Ile	Leu	Gly	Leu	Gln	His	Leu	Phe	Asp	Gln	Glu	Asn	Ser	Trp	Leu	Trp
				325					330					335	
Met	Tyr	Arg	Lys	Leu	Gly	Gly	Gly	Met	Leu	Gly	Ile	Leu	Met	Val	Pro
			340					345					350		
Val	Leu	Ala	Ala	Tyr	Thr	Ala	Tyr	Ser	Leu	Ala	Asp	Lys	Pro	Ala	Leu
	355						360					365			
Thr	Pro	Gly	Phe	Ala	Ala	Gly	Leu	Ala	Ala	Asn	Met	Ile	Gly	Ser	Gly
	370					375					380				
Phe	Leu	Gly	Ala	Ile	Val	Gly	Gly	Leu	Ile	Ala	Gly	Tyr	Leu	Met	Arg
385					390					395					400
Trp	Val	Lys	Asn	His	Ile	Arg	Leu	Ser	Ser	Arg	Tyr	Asn	Gly	Phe	Leu
				405					410					415	
Thr	Phe	Tyr	Leu	Tyr	Pro	Val	Ile	Gly	Val	Leu	Gly	Ala	Gly	Ser	Leu
			420					425					430		
Met	Leu	Phe	Val	Ile	Gly	Glu	Pro	Val	Ala	Trp	Ile	Asn	Asn	Ala	Leu
			435				440					445			

Thr Ala Trp Leu Asn Gly Leu Ser Gly Ala Asn Ala Leu Leu Leu Gly
 450 455 460
 Ala Ile Leu Gly Phe Met Cys Ser Phe Asp Leu Gly Gly Pro Val Asn
 465 470 475 480
 Lys Ala Ser Tyr Ala Phe Cys Leu Gly Ala Met Ala Asn Gly Val Tyr
 485 490 495
 Gly Pro Tyr Ala Ile Phe Ala Ser Val Lys Met Val Ser Ala Phe Thr
 500 505 510
 Val Thr Ala Ser Thr Met Leu Ala Pro Asn Leu Phe Lys Gln Phe Glu
 515 520 525
 Ile Glu Thr Gly Lys Ser Thr Trp Leu Leu Gly Leu Ala Gly Ile Thr
 530 535 540
 Glu Gly Ala Ile Pro Met Ala Ile Glu Asp Pro Leu Arg Val Ile Gly
 545 550 555 560
 Ser Phe Val Leu Gly Ser Met Ala Thr Gly Ala Ile Val Gly Ala Met
 565 570 575
 Gly Ile Gly Leu Ser Thr Pro Gly Ala Gly Ile Phe Ser Leu Phe Leu
 580 585 590
 Leu His Asp Ala Gly Leu Gly Gly Val Met Ala Ala Ala Gly Trp Phe
 595 600 605
 Gly Ala Ala Leu Ile Gly Ala Ala Ile Ser Thr Leu Ile Leu Leu Leu
 610 615 620
 Trp Arg Arg Gln Ala Val Lys Ser Gly Ala Tyr Val Thr Glu Asp Ile
 625 630 635 640
 Thr Ser

<210> 8899

<211> 565

<212> PRT

<213> Enterobacter cloacae

<400> 8899

Cys Gly Gly Ile Leu Met Ala Ala Gln Ala Phe Leu Leu Ile Ala Ser
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 Ala Arg Leu Ile Asn Asn Val Pro Leu Pro Gly Thr Arg Asn Ile Glu
 35 40 45
 Asn Val Leu Trp Arg Ile Ser Gly Ile Ser Asp Arg Glu Met Asn Trp
 50 55 60
 Arg Gln Tyr Leu Met Ala Ile Leu Leu Leu Asn Ile Val Gly Leu Ile
 65 70 75 80
 Ala Leu Phe Thr Leu Leu Met Leu Gln Gly Ser Leu Pro Leu Asn Pro
 85 90 95
 Gln Gln Leu Pro Gly Leu Ser Trp His Leu Ala Leu Asn Thr Ala Val
 100 105 110
 Ser Phe Val Thr Asn Thr Asn Trp Gln Ser Tyr Ala Gly Glu Thr Thr
 115 120 125
 Leu Ser Tyr Phe Ser Gln Met Ala Gly Leu Thr Val Gln Asn Phe Leu
 130 135 140
 Ser Ala Ala Ser Gly Ile Ala Val Ile Phe Ala Leu Thr Arg Ala Phe
 145 150 155 160
 Ala Arg Gln Asn Val Ser Thr Leu Gly Asn Ala Trp Val Asp Val Thr
 165 170 175
 Arg Ile Thr Leu Trp Ile Leu Val Pro Val Ala Leu Ile Ile Ala Leu
 180 185 190
 Phe Phe Ile Gln Gln Gly Thr Leu Gln Asn Leu Leu Pro Tyr Thr Pro
 195 200 205
 Phe Thr Ser Leu Glu Gly Ala Arg Glu Leu Leu Pro Met Gly Pro Val
 210 215 220

Ala Ser Gln Glu Ala Ile Lys Met Leu Gly Thr Asn Gly Gly Gly Phe
 225 230 235 240
 Phe Asn Ala Asn Ser His Pro Phe Glu Asn Pro Thr Ala Leu Thr
 245 250 255
 Asn Phe Val Gln Met Leu Ala Ile Phe Leu Ile Pro Thr Ala Leu Cys
 260 265 270
 Phe Ala Phe Gly Asp Val Val Asn Asp Arg Arg Gln Gly Arg Thr Leu
 275 280 285
 Leu Trp Ala Met Ser Leu Ile Phe Val Val Cys Val Ala Leu Val Met
 290 295 300
 Trp Ala Glu Trp Tyr Gly Asn Ser His Phe Met Gln Leu Gly Ala Asn
 305 310 315 320
 Ser Asn Ile Asn Leu Glu Gly Lys Glu Ser Arg Phe Gly Ile Leu Ala
 325 330 335
 Ser Ser Leu Tyr Ala Val Val Thr Thr Ala Ala Ser Cys Gly Ala Val
 340 345 350
 Asn Ala Met His Asp Ser Phe Thr Ala Leu Gly Gly Met Ile Pro Met
 355 360 365
 Trp Leu Met Gln Ile Gly Glu Val Val Phe Gly Gly Val Gly Ser Gly
 370 375 380
 Leu Tyr Gly Met Leu Leu Phe Val Leu Leu Ala Val Phe Ile Ala Gly
 385 390 395 400
 Leu Met Ile Gly Arg Thr Pro Glu Tyr Leu Gly Lys Lys Ile Asp Val
 405 410 415
 Arg Glu Met Lys Leu Thr Ala Leu Ala Ile Leu Val Thr Pro Ala Leu
 420 425 430
 Val Leu Leu Gly Thr Ala Leu Ala Leu Met Thr Asp Val Gly Arg Ser
 435 440 445
 Gly Ile Phe Asn Pro Gly Ile His Gly Phe Ser Glu Val Leu Tyr Ala
 450 455 460
 Val Ser Ser Ala Ala Asn Asn Asn Gly Ser Ala Phe Ala Gly Leu Ser
 465 470 475 480
 Ala Asn Ser Pro Phe Trp Asn Cys Leu Leu Ala Phe Cys Met Phe Val
 485 490 495
 Gly Arg Phe Gly Val Ile Ile Pro Val Met Ala Ile Ala Gly Thr Leu
 500 505 510
 Val Asn Lys Lys Ile Gln Pro Thr Thr Thr Gly Thr Leu Pro Thr His
 515 520 525
 Gly Ala Leu Phe Val Gly Leu Leu Ile Gly Thr Val Leu Leu Val Gly
 530 535 540
 Ala Leu Thr Phe Ile Pro Ala Leu Ala Leu Gly Pro Val Ala Glu Tyr
 545 550 555 560
 Leu Ser Leu Arg
 565

<210> 8900

<211> 689

<212> PRT

<213> Enterobacter cloacae

<400> 8900

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 20 25 30
 Pro Arg Val Gln Trp His Asn Pro Val Met Phe Ile Val Trp Thr Gly
 35 40 45
 Ser Leu Leu Thr Thr Val Leu Ala Ile Ala Met Gly Thr Gly His Leu
 50 55 60
 Leu Gly Asn Ala Thr Phe Thr Gly Ala Ile Ser Leu Trp Leu Trp Phe
 65 70 75 80

Thr	Val	Leu	Phe	Ala	Asn	Phe	Ala	Glu	Ala	Leu	Ala	Glu	Gly	Arg	Ser
				85					90					95	
Lys	Ala	Gln	Ala	Asn	Ser	Leu	Lys	Gly	Val	Lys	Lys	Thr	Ala	Phe	Ala
			100					105					110		
Arg	Lys	Leu	Arg	Glu	Pro	Lys	Tyr	Gly	Ala	His	Met	Asp	His	Val	Pro
		115					120					125			
Ala	Asp	Glu	Leu	Arg	Lys	Gly	Asp	Val	Val	Leu	Val	Glu	Ala	Gly	Asp
	130					135					140				
Ile	Ile	Pro	Cys	Asp	Gly	Glu	Val	Ile	Glu	Gly	Gly	Ala	Ser	Val	Asp
145					150					155					160
Glu	Ser	Ala	Ile	Thr	Gly	Glu	Ser	Ala	Pro	Val	Ile	Arg	Glu	Ser	Gly
				165					170						175
Gly	Asp	Phe	Ala	Ser	Val	Thr	Gly	Gly	Thr	Arg	Ile	Leu	Ser	Asp	Trp
			180					185					190		
Leu	Val	Ile	Gln	Cys	Ser	Val	Asn	Pro	Gly	Glu	Thr	Phe	Leu	Asp	Arg
		195					200					205			
Met	Ile	Ala	Met	Val	Glu	Gly	Ala	Gln	Arg	Arg	Lys	Thr	Pro	Asn	Glu
	210					215					220				
Ile	Ala	Leu	Thr	Ile	Leu	Leu	Val	Ala	Leu	Thr	Ile	Val	Phe	Leu	Leu
225					230					235					240
Ala	Thr	Ala	Thr	Leu	Trp	Pro	Phe	Ser	Ala	Tyr	Gly	Gly	Thr	Ala	Val
				245					250						255
Ser	Ile	Thr	Val	Leu	Ile	Ala	Leu	Leu	Val	Cys	Leu	Ile	Pro	Thr	Thr
			260					265					270		
Ile	Gly	Gly	Leu	Leu	Ser	Ala	Ile	Gly	Val	Ala	Gly	Met	Ser	Arg	Met
	275						280					285			
Leu	Gly	Ala	Asn	Val	Ile	Ala	Thr	Ser	Gly	Arg	Ala	Val	Glu	Ala	Ala
	290					295					300				
Gly	Asp	Val	Asp	Val	Leu	Leu	Leu	Asp	Lys	Thr	Gly	Thr	Ile	Thr	Leu
305					310					315					320
Gly	Asn	Arg	Gln	Ala	Ser	Asp	Phe	Leu	Pro	Ala	Pro	Gly	Val	Asp	Glu
				325					330					335	
Lys	Thr	Leu	Ala	Asp	Ala	Ala	Gln	Leu	Ser	Ser	Leu	Ala	Asp	Glu	Thr
			340					345					350		
Pro	Glu	Gly	Arg	Ser	Ile	Val	Ile	Leu	Ala	Lys	Gln	Arg	Phe	Asn	Leu
	355						360					365			
Arg	Gln	Arg	Asp	Val	Gln	Ser	Leu	His	Ala	Thr	Phe	Val	Pro	Phe	Thr
	370					375					380				
Ala	Gln	Thr	Arg	Met	Ser	Gly	Ile	Asn	Ile	Gln	Asp	Arg	Met	Ile	Arg
385					390					395					400
Lys	Gly	Ser	Val	Asp	Ala	Ile	Arg	Arg	His	Ile	Glu	Ala	Asn	Asn	Gly
				405					410					415	
His	Phe	Pro	Pro	Glu	Val	Asp	His	Leu	Val	Glu	Ser	Val	Ala	Arg	Gln
			420					425					430		
Gly	Ala	Thr	Pro	Leu	Val	Val	Ala	Glu	Gly	Ala	Ser	Val	Leu	Gly	Val
		435					440					445			
Ile	Ala	Leu	Lys	Asp	Ile	Val	Lys	Gly	Gly	Ile	Lys	Glu	Arg	Phe	Ala
	450					455					460				
Gln	Met	Arg	Lys	Met	Gly	Ile	Lys	Thr	Val	Met	Ile	Thr	Gly	Asp	Asn
465					470					475					480
Arg	Leu	Thr	Ala	Ala	Ala	Ile	Ala	Ala	Glu	Ala	Gly	Val	Asp	Asp	Phe
			485						490					495	
Leu	Ser	Glu	Ala	Thr	Pro	Glu	Ala	Lys	Leu	Ala	Leu	Ile	Arg	Gln	Tyr
			500					505					510		
Gln	Ala	Glu	Gly	Arg	Leu	Val	Ala	Met	Thr	Gly	Asp	Gly	Thr	Asn	Asp
	515						520					525			
Ala	Pro	Ala	Leu	Ala	Gln	Ala	Asp	Val	Ala	Val	Ala	Met	Asn	Ser	Gly
	530					535					540				
Thr	Gln	Ala	Ala	Lys	Glu	Ala	Gly	Asn	Met	Val	Asp	Leu	Asp	Ser	Asn
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Pro	Thr	Lys	Leu	Ile	Glu	Val	Val	His	Ile	Gly	Lys	Gln	Met	Leu	Met

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<211> 196
<212> PRT
<213> Enterobacter cloacae
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<210> 8902
<211> 896
<212> PRT
<213> Enterobacter cloacae
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Thr Ala Glu Ala His Arg Gly Lys Leu Lys Ile Phe Phe Gly Ala Cys
20          25          30

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Ala	Gly	Val	Gly	Lys	Thr	Phe	Ala	Met	Leu	Thr	Glu	Ala	Gln	Arg	Leu
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Arg	Ala	Gln	Gly	Leu	Asp	Ile	Leu	Ile	Gly	Val	Val	Glu	Thr	His	Gly
	50					55					60				
Arg	Lys	Glu	Thr	Ala	Ala	Leu	Leu	Thr	Gly	Leu	Ala	Thr	Gln	Pro	Pro
65					70					75					80
Gln	Arg	Ile	Ser	His	Arg	Gly	Arg	Leu	Val	Thr	Glu	Phe	Asp	Leu	Asp
				85					90					95	
Ala	Ala	Leu	Ala	Arg	Arg	Pro	Ala	Leu	Ile	Leu	Met	Asp	Glu	Leu	Ala
			100				105						110		
His	Ser	Asn	Ala	Pro	Gly	Ser	Arg	His	Pro	Lys	Arg	Trp	Gln	Asp	Val
		115					120					125			
Glu	Glu	Leu	Leu	Glu	Ala	Gly	Ile	Asp	Val	Phe	Thr	Thr	Val	Asn	Val
	130					135					140				
Gln	His	Leu	Glu	Ser	Leu	Asn	Asp	Val	Val	Ser	Gly	Val	Thr	Gly	Ile
145					150					155					160
Gln	Val	Arg	Glu	Thr	Val	Pro	Asp	Pro	Phe	Phe	Asp	Ser	Ala	Asp	Glu
				165					170					175	
Val	Val	Leu	Val	Asp	Leu	Pro	Pro	Asp	Asp	Leu	Arg	Gln	Arg	Leu	His
			180					185					190		
Glu	Gly	Lys	Val	Tyr	Ile	Ala	Gly	Gln	Ala	Glu	Arg	Ala	Ile	Glu	His
		195					200					205			
Phe	Phe	Arg	Lys	Gly	Asn	Leu	Ile	Ala	Leu	Arg	Glu	Leu	Ala	Leu	Arg
	210					215					220				
Arg	Thr	Ala	Asp	Arg	Val	Asp	Asp	Gln	Met	Arg	Ala	Trp	Arg	Asp	Leu
225					230					235					240
Gln	Gly	Gln	Glu	Arg	Val	Trp	His	Thr	Arg	Asp	Ala	Ile	Leu	Leu	Cys
				245					250					255	
Ile	Gly	His	Gly	Ser	Gly	Asn	Glu	Lys	Leu	Val	Arg	Thr	Ala	Ala	Arg
			260				265						270		
Leu	Ala	Ala	Lys	Phe	Gly	Ser	Val	Trp	His	Ala	Val	Tyr	Val	Glu	Thr
		275					280					285			
Pro	Gln	Leu	His	Gly	Leu	Pro	Glu	Asn	Gln	Arg	Arg	Ala	Ile	Leu	Ser
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Ala	Leu	Arg	Leu	Ala	Gln	Glu	Leu	Gly	Ala	Glu	Thr	Ala	Thr	Leu	Ser
305					310					315					320
Asp	Pro	Gln	Glu	Asp	Lys	Ala	Ile	Leu	Arg	Tyr	Ala	Arg	Glu	His	Asn
				325					330					335	
Leu	Gly	Lys	Ile	Val	Ile	Gly	Arg	Arg	Gln	His	Arg	Arg	Trp	Phe	Ser
			340				345						350		
Arg	Glu	Ser	Phe	Ala	Asp	Arg	Leu	Ala	Arg	Arg	Ala	Pro	Asp	Leu	Asp
		355					360					365			
Leu	Val	Ile	Val	Ala	Leu	Asp	Asp	Lys	Pro	Ala	Pro	Leu	Pro	Asn	Arg
	370					375					380				
Thr	Pro	Asp	Ala	Arg	Thr	Phe	Gly	Asp	Lys	Trp	Arg	Ile	Gln	Ile	Arg
385					390					395					400
Gly	Cys	Met	Val	Ala	Val	Val	Leu	Cys	Ala	Leu	Ile	Thr	Val	Ile	Ala
				405					410					415	
Ser	Gln	Trp	Leu	Ile	Ala	Phe	Asp	Ala	Ala	Asn	Leu	Val	Met	Ile	Tyr
			420				425						430		
Leu	Leu	Gly	Val	Val	Val	Val	Ala	Leu	Phe	Tyr	Gly	Arg	Trp	Pro	Ser
		435					440					445			
Val	Leu	Ala	Thr	Val	Ile	Asn	Val	Ile	Ser	Phe	Asp	Leu	Phe	Phe	Ile
	450					455					460				
Ala	Pro	Arg	Gly	Thr	Leu	Ala	Val	Ser	Asp	Val	Gln	Tyr	Ile	Leu	Thr
465					470					475					480
Phe	Ala	Val	Met	Leu	Thr	Val	Gly	Leu	Val	Ile	Gly	Asn	Leu	Thr	Ala
				485					490					495	
Gly	Val	Arg	Tyr	Gln	Ala	Arg	Ile	Ala	Arg	Tyr	Arg	Glu	Gln	Arg	Thr
			500					505					510		
Arg	His	Leu	Tyr	Glu	Met	Ser	Lys	Ser	Leu	Ala	Val	Gly	Arg	Thr	Gln

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<210> 8903
<211> 65
<212> PRT
<213> Enterobacter cloacae
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<400> 8903															
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1				5					10					15	
Asp	Lys	Met	Thr	Met	Leu	Ser	Ile	Thr	Glu	Arg	Lys	Leu	Asn	Met	Glu
			20					25					30		
Asn	Asn	Asn	Arg	Leu	Met	Pro	His	Ile	Arg	Arg	Thr	Thr	His	Ile	Met
		35					40					45			
Met	Phe	Ala	His	Arg	Asn	Cys	Phe	Asp	Phe	His	Leu	Phe	Asn	Ala	Arg

50
 55
 60
 65
 <210> 8904
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 <212> PRT
 <213> Enterobacter cloacae
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 1 5 10 15
 Cys Pro Glu Cys Phe Thr Thr Ser Arg Asp Ile Val Asp Ile Thr Ala
 20 25 30
 Ser Asp Tyr Ile Asp Val Ala Ala Val Val Leu Ala Val Ser Asp Ile
 35 40 45
 Phe Asn Gly Ala Ile Glu Glu Ile Glu Ala Thr Gly Phe Gly Ile Pro
 50 55 60
 Val Phe Ile Ala Thr His Lys Glu Glu Arg Val Pro Ala Glu Phe Leu
 65 70 75 80
 Ser Arg Ile His Gly Val Phe Glu Tyr Ser Asp Thr Ser Asn Ala Tyr
 85 90 95
 Tyr Gly Arg Gln Leu Glu Ala Ala Ala Gln Lys Tyr Glu Thr Gln Leu
 100 105
 Arg Pro Pro Phe Phe Arg Ala Leu Val Asp Tyr Val Gln Gln Gly Asn
 115 120 125
 Ser Ala Phe Asp Cys Pro Gly His Gln Gly Gly Gln Phe Phe Arg Arg
 130 135 140
 His Pro Ala Gly Asn Gln Phe Val Asp Phe Phe Gly Glu Thr Leu Phe
 145 150 155 160
 Arg Ala Asp Leu Cys Asn Ala Asp Val Ala Met Gly Asp Leu Leu Ile
 165 170 175
 His Glu Gly Ala Pro Cys Ile Ala Gln His Ala Ala Lys Val Tyr
 180 185 190
 Asn Ala Asp Lys Thr Tyr Phe Val Leu Asn Gly Thr Ser Ser Ser Asn
 195 200 205
 Lys Val Val Leu Asn Ala Leu Leu Thr Pro Gly Asp Leu Val Leu Phe
 210 215 220
 Asp Arg Asn Asn His Lys Ser Asn His His Gly Ala Leu Leu Gln Ala
 225 230 235 240
 Gly Ala Thr Pro Val Tyr Leu Glu Thr Ala Arg Asn Pro Tyr Gly Phe
 245 250 255
 Ile Gly Gly Ile Asp Ala His Cys Phe Asp Glu Ser Tyr Leu Arg Glu
 260 265 270
 Leu Val Ser Glu Val Ala Pro Gly Arg Ala Arg Asp Glu Arg Pro Phe
 275 280 285
 Arg Leu Ala Val Ile Gln Leu Gly Thr Tyr Asp Gly Thr Ile Tyr Asn
 290 295 300
 Ala Arg Gln Val Val Asp Lys Ile Gly His Leu Cys Asp Tyr Ile Leu
 305 310 315 320
 Phe Asp Ser Ala Trp Val Gly Tyr Glu Gln Phe Ile Pro Met Met Ala
 325 330 335
 Asp Cys Ser Pro Leu Leu Leu Glu Leu Asn Glu Asn Asp Pro Gly Ile
 340 345 350
 Leu Val Thr Gln Ser Val His Lys Gln Gln Ala Gly Phe Ser Gln Thr
 355 360 365
 Ser Gln Ile His Lys Lys Asp Ser His Ile Lys Gly Gln Ala Arg Tyr
 370 375 380
 Val Pro His Lys Arg Leu Asn Asn Ala Phe Met Met His Ala Ser Thr
 385 390 395 400
 Ser Pro Phe Tyr Pro Leu Phe Ala Ala Leu Asp Ile Asn Ala Arg Met

405 410 415
 His Glu Gly Gln Ser Gly Arg Asn Met Trp Met Asp Cys Val Val Thr
 420 425 430
 Gly Ile Glu Ala Arg Lys Leu Ile Leu Gln Asn Cys Gln Phe Ile Arg
 435 440 445
 Pro Phe Val Pro Glu Thr Val Asp Gly Arg Pro Trp Glu Ser Trp Asp
 450 455 460
 Thr Ala Glu Ile Ala Thr Asp Leu Arg Phe Phe His Phe Val Pro Gly
 465 470 475 480
 Glu Arg Trp His Ala Phe Glu Gly Tyr Ala Glu His Gln Tyr Phe Ile
 485 490 495
 Asp Pro Cys Lys Leu Leu Leu Thr Thr Pro Gly Ile Asn Ala Arg Thr
 500 505 510
 Gly Glu Tyr Asp Asp Phe Gly Val Pro Ala Thr Ile Leu Ala Asn Phe
 515 520 525
 Leu Arg Glu Asn Gly Ile Val Pro Glu Lys Cys Asp Leu Asn Ser Ile
 530 535 540
 Leu Phe Leu Leu Thr Pro Ala Glu Asp Met Gly Lys Leu Gln Gln Leu
 545 550 555 560
 Val Ala Gln Leu Val Arg Phe Glu Lys Leu Leu Gln Ser Asp Val Pro
 565 570 575
 Leu Lys Glu Val Leu Pro Ser Leu Tyr Lys Gln His Pro Glu Arg Tyr
 580 585 590
 Ala Asp Tyr Thr Leu Arg Gln Ile Cys Gln Glu Met His Asp Leu Tyr
 595 600 605
 Ala Arg His Asn Val Lys Gln Leu Gln Lys Glu Met Phe Arg Arg Ser
 610 615 620
 His Phe Pro Arg Val Met Met Asn Pro Gln Glu Ala Asn Tyr Ala Tyr
 625 630 635 640
 Leu Arg Gly Glu Val Glu Leu Val Ser Leu Arg Asp Ala Glu Gly Arg
 645 650 655
 Ile Ala Ala Glu Gly Ala Leu Pro Tyr Pro Pro Gly Val Leu Cys Val
 660 665 670
 Val Pro Gly Glu Val Trp Gly Gly Ser Val Leu Arg Tyr Phe Ala Ala
 675 680 685
 Leu Glu Asp Gly Ile Asn Leu Leu Pro Gly Phe Ala Pro Glu Leu Gln
 690 695 700
 Gly Val Tyr Val Glu Glu Cys Asp Gly Arg Lys Gln Val Arg Cys Tyr
 705 710 715 720
 Val Ile Lys Gln Pro Ala Ala Gln Pro Ser Leu Leu Lys Gly Glu Lys
 725 730 735
 Leu

<210> 8905

<211> 250

<212> PRT

<213> Enterobacter cloacae

<400> 8905

Phe Pro Glu Lys Val Leu Asn Arg Arg Asp Pro Met Gly Asn Lys Pro
 1 5 10 15
 Met Tyr Arg Gln Ile Ala Asp Ala Phe Arg Glu Lys Ile Asn Ala Gly
 20 25 30
 Glu Leu Lys Pro Gly Asp Ala Leu Pro Thr Glu Ser Ser Leu Gln Glu
 35 40 45
 Ala Phe Ser Val Ser Arg Val Thr Val Arg Gln Ala Leu Lys Leu Leu
 50 55 60
 Ala Asp Glu Gln Ile Ile Glu Ser Ile Gln Gly Ser Gly Ser Tyr Val
 65 70 75 80
 Lys Glu Glu Arg Val Asn Tyr Asp Ile Tyr Gln Leu Thr Gly Phe Tyr

				85				90					95				
Glu	Lys	Leu	Ala	Asp	Arg	Asn	Val	Asp	Thr	His	Ser	Asp	Val	Ser	Val		
			100					105					110				
Phe	Glu	Val	Val	Lys	Ala	Asp	Glu	Arg	Leu	Ala	Thr	Lys	Leu	Ala	Leu		
			115					120					125				
Asn	Pro	Asp	Asp	Lys	Val	Trp	His	Val	Lys	Arg	Val	Arg	Phe	Ile	Arg		
			130			135						140					
Glu	Lys	Pro	Val	Asn	Leu	Glu	Glu	Thr	Trp	Met	Pro	Leu	Ala	Met	Phe		
145					150					155					160		
Pro	Asp	Leu	Thr	Trp	Glu	Val	Met	Glu	Gln	Ser	Lys	Tyr	His	Tyr	Ile		
				165					170						175		
Glu	Gln	Ile	Lys	Lys	Met	Val	Ile	Asp	Arg	Ser	Glu	Gln	Glu	Leu	Val		
			180					185					190				
Pro	Val	Met	Pro	Ser	Asp	Glu	Ala	Ile	Ala	Ala	Leu	Ala	Leu	Asp	Pro		
			195				200					205					
Ala	Lys	Pro	Ile	Leu	Glu	Lys	Val	Ser	Arg	Gly	Phe	Leu	Lys	Asp	Gly		
			210			215					220						
Arg	Val	Phe	Glu	Tyr	Ser	Arg	Asn	Val	Phe	Asn	Ser	Asp	Asp	Tyr	Lys		
225					230					235					240		
Phe	Thr	Leu	Val	Ala	Lys	Arg	Arg	Gln									
				245				250									

<210> 8906

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 8906

Lys	Ala	Arg	Ser	Val	Arg	Met	Leu	Leu	Ile	Ser	Val	Arg	Trp	Val	Pro		
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Lys	Gly	Tyr	Ser	Pro	Phe	Asp	Pro	Gly	Phe	Thr	Ser	Thr	Ala	Ser	Cys		
			20					25					30				
Glu	Ser	Lys	Ile	Thr	Tyr	Ile	Asp	Gly	Asp	Glu	Gly	Ile	Leu	Leu	His		
			35				40					45					
Arg	Gly	Phe	Pro	Ile	Asp	Gln	Leu	Ala	Thr	Glu	Ser	Asn	Tyr	Leu	Glu		
			50			55					60						
Val	Cys	Tyr	Ile	Leu	Leu	Asn	Gly	Glu	Lys	Pro	Thr	Gln	Ala	Gln	Tyr		
65				70					75					80			
Asp	Glu	Phe	Lys	Thr	Val	Thr	Arg	His	Thr	Met	Ile	His	Glu	Gln			
			85					90					95				
Ile	Thr	Arg	Leu	Phe	His	Ala	Phe	Arg	Arg	Asp	Ser	His	Pro	Met	Ala		
			100					105					110				
Val	Met	Cys	Gly	Ile	Thr	Gly	Ala	Leu	Ala	Ala	Phe	Tyr	His	Asp	Ser		
			115				120					125					
Leu	Asp	Val	Asn	Asn	Pro	Arg	His	Arg	Asp	Ile	Ala	Ala	Phe	Arg	Leu		
			130			135					140						
Leu	Ser	Lys	Met	Pro	Thr	Met	Ala	Ala	Met	Cys	Tyr	Lys	Tyr	Ser	Ile		
145					150					155					160		
Gly	Gln	Pro	Phe	Val	Tyr	Pro	Arg	Asn	Asp	Leu	Ser	Tyr	Ala	Gly	Asn		
				165					170					175			
Phe	Leu	Arg	Met	Met	Phe	Ser	Thr	Pro	Cys	Glu	Glu	Tyr	Glu	Val	Asn		
			180					185					190				
Pro	Val	Leu	Glu	Arg	Ala	Met	Asp	Arg	Ile	Leu	Ile	Leu	His	Ala	Asp		
			195				200					205					
His	Glu	Gln	Asn	Ala	Ser	Thr	Ser	Thr	Val	Arg	Thr	Ala	Gly	Ser	Ser		
			210			215					220						
Gly	Ala	Asn	Pro	Phe	Ala	Cys	Ile	Ala	Ala	Gly	Ile	Ala	Ser	Leu	Trp		
225					230					235					240		
Gly	Pro	Ala	His	Gly	Gly	Ala	Asn	Glu	Ala	Ala	Leu	Lys	Met	Leu	Glu		
				245				250						255			
Glu	Ile	Ser	Ser	Val	Glu	His	Ile	Pro	Glu	Phe	Val	Arg	Arg	Ala	Lys		


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<210> 8907
<211> 231
<212> PRT
<213> Enterobacter cloacae
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[illegible]

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<210> 8908
<211> 463
<212> PRT
<213> Enterobacter cloacae
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<400> 8908

Arg	Ser	Gln	Thr	Gly	Ala	Leu	Leu	Arg	His	Gln	Thr	Thr	Cys	Arg	Ser
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Ala	Ile	Ala	Ala	Glu	Arg	Arg	Lys	Ile	Met	Ser	Lys	Ala	Asn	Lys	Met
			20					25					30		
Gly	Val	Val	Gln	Leu	Thr	Ile	Leu	Thr	Met	Val	Asn	Met	Met	Gly	Ser
			35				40					45			
Gly	Ile	Ile	Met	Leu	Pro	Thr	Lys	Leu	Ala	Glu	Val	Gly	Thr	Ile	Ser
	50					55					60				
Ile	Ile	Ser	Trp	Leu	Val	Thr	Ala	Val	Gly	Ser	Met	Ala	Leu	Ala	Trp
65					70					75					80
Ala	Phe	Ala	Lys	Cys	Gly	Met	Phe	Ser	Arg	Lys	Ser	Gly	Gly	Met	Gly
				85					90					95	
Gly	Tyr	Ala	Glu	Tyr	Ala	Phe	Gly	Lys	Ser	Gly	Asn	Phe	Met	Ala	Asn
			100					105					110		
Tyr	Thr	Tyr	Gly	Val	Ser	Leu	Leu	Ile	Ala	Asn	Val	Ala	Ile	Ala	Ile
			115				120					125			
Ser	Ala	Val	Gly	Tyr	Gly	Thr	Glu	Leu	Phe	Gly	Ala	Thr	Leu	Thr	Pro
	130					135					140				
Val	Gln	Ile	Gly	Leu	Ala	Thr	Ile	Gly	Val	Leu	Trp	Ile	Cys	Thr	Val
145					150					155					160
Ala	Asn	Phe	Gly	Gly	Ala	Arg	Ile	Thr	Gly	Gln	Leu	Ser	Ser	Ile	Thr
				165					170					175	
Val	Trp	Gly	Val	Ile	Ile	Pro	Val	Val	Gly	Leu	Cys	Ile	Ile	Gly	Trp
			180				185						190		
Phe	Trp	Phe	Ser	Pro	Thr	Leu	Tyr	Ala	Asn	Ser	Trp	Asn	Pro	His	His
			195				200					205			
Val	Pro	Phe	Phe	Thr	Ala	Val	Gly	Ser	Ser	Ile	Ala	Met	Thr	Leu	Trp
	210					215					220				
Ala	Phe	Leu	Gly	Leu	Glu	Ser	Ala	Cys	Ala	Asn	Ala	Glu	Val	Val	Glu
225					230					235					240
Asn	Pro	Glu	Lys	Asn	Val	Pro	Ile	Ala	Val	Leu	Gly	Gly	Thr	Leu	Gly
				245					250					255	
Ala	Ala	Val	Ile	Tyr	Ile	Val	Ser	Thr	Asn	Val	Ile	Ala	Gly	Ile	Val
			260					265					270		
Pro	Asn	Met	Asp	Leu	Ala	Asn	Ser	Thr	Ala	Pro	Phe	Gly	Leu	Ala	Phe
		275					280					285			
Ala	Gln	Met	Phe	Thr	Pro	Glu	Val	Gly	Lys	Val	Ile	Met	Gly	Leu	Met
						295					300				
Val	Met	Ser	Cys	Cys	Gly	Ser	Leu	Leu	Gly	Trp	Gln	Phe	Thr	Ile	Ala
305					310					315					320
Gln	Val	Phe	Lys	Ser	Ser	Ala	Asp	Glu	Gly	Tyr	Phe	Pro	Lys	Ile	Phe
				325					330					335	
Ser	Arg	Val	Thr	Lys	Ala	Asp	Ala	Pro	Val	Gln	Gly	Met	Leu	Ala	Ile
			340				345						350		
Val	Ile	Phe	Gln	Ser	Gly	Leu	Ser	Leu	Met	Thr	Ile	Ser	Pro	Ser	Leu
			355				360					365			
Asn	Ser	Gln	Phe	Asn	Val	Leu	Val	Asn	Leu	Ala	Val	Val	Thr	Asn	Ile
					375						380				
Ile	Pro	Tyr	Ile	Leu	Ser	Met	Ala	Ala	Leu	Val	Ile	Ile	Gln	Lys	Val
385					390					395					400
Ala	Lys	Val	Asp	Pro	Arg	Lys	Ala	Arg	Ala	Ala	Asn	Ile	Val	Ala	Leu
				405					410					415	
Ile	Gly	Ala	Ile	Tyr	Ser	Phe	Tyr	Ala	Leu	Tyr	Ser	Ser	Gly	Gln	Glu
			420				425						430		
Ala	Met	Leu	Tyr	Gly	Ala	Met	Val	Thr	Phe	Met	Gly	Trp	Thr	Leu	Tyr
			435				440					445			
Gly	Leu	Val	Ser	Pro	Arg	Phe	Glu	Leu	Lys	Asn	Lys	His	Ser		
	450					455					460				

<210> 8909
 <211> 177
 <212> PRT
 <213> Enterobacter cloacae

<400> 8909

Glu	Gly	Ile	Leu	Met	Ser	Val	Gln	Gln	Thr	Lys	Ala	Glu	Leu	Leu	Leu
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Ala	Ile	Asp	Lys	Asn	Phe	Ser	Lys	Leu	Ile	Ser	Tyr	Leu	Lys	Ala	Ile
		20						25					30		
Pro	Pro	Glu	Ile	Thr	Ser	Asp	Asn	Ser	Met	Asp	Gly	His	Ala	Lys	Gly
		35					40					45			
Thr	Glu	Met	Ser	Val	Arg	Asp	Leu	Val	Ser	Tyr	Leu	Ile	Gly	Trp	Asn
	50					55					60				
Ala	Leu	Val	Val	Lys	Trp	Ile	Thr	Ser	Asp	Ala	Lys	Gly	Leu	Pro	Val
65					70				75					80	
Asp	Phe	Pro	Glu	Thr	Gly	Tyr	Lys	Trp	Asn	Gln	Leu	Gly	Leu	Leu	Ala
				85					90					95	
Gln	Lys	Phe	Tyr	Ser	Asp	Tyr	Ser	Gly	Leu	Thr	Tyr	Glu	Leu	Leu	Ile
		100						105					110		
Ile	Glu	Leu	Gln	Thr	Val	Lys	Asn	Glu	Leu	Val	Lys	Leu	Ile	Asp	Glu
		115					120					125			
Arg	Thr	Asp	Asp	Ile	Leu	Tyr	Gly	Arg	Pro	Trp	Tyr	Thr	Lys	Trp	Thr
	130					135					140				
Met	Gly	Arg	Met	Ile	Ser	Phe	Asn	Thr	Ser	Ser	Pro	Tyr	Ala	Asn	Ala
145					150					155				160	
Asn	Gly	Arg	Leu	Arg	Lys	Trp	Ala	Lys	Asn	Asn	Asn	Ile	Ser	Leu	Lys
				165					170					175	

<210> 8910
 <211> 200
 <212> PRT
 <213> Enterobacter cloacae

<400> 8910

Asn	Tyr	Met	Asp	Glu	Lys	Ser	Leu	Tyr	Ala	His	Ile	Leu	Asn	Leu	Thr
1				5					10					15	
Ala	Pro	Trp	Gln	Val	Lys	Ser	Leu	Thr	Leu	Asp	Glu	Asn	Ala	Gly	Ser
			20					25					30		
Val	Thr	Val	Thr	Val	Gly	Ile	Ala	Glu	Asn	Ile	Gln	Leu	Thr	Cys	Pro
		35				40					45				
Thr	Cys	Gly	Lys	Ser	Cys	Pro	Val	His	Asp	His	Arg	His	Arg	Lys	Trp
	50					55				60					
Arg	His	Leu	Asp	Thr	Cys	Gln	Phe	Ala	Thr	Leu	Val	Glu	Ala	Asp	Val
65					70				75					80	
Pro	Arg	Ile	Met	Cys	Pro	Asp	His	Gly	Cys	Gln	Thr	Leu	Pro	Val	Pro
				85					90					95	
Trp	Ala	Gly	Pro	Gly	Ser	Arg	Tyr	Thr	Leu	Leu	Phe	Glu	Ser	Phe	Val
		100					105						110		
Ile	Ser	Trp	Leu	Lys	Ile	Ser	Thr	Val	Asp	Ala	Val	Arg	Lys	Gln	Leu
		115					120					125			
Arg	Leu	Ser	Trp	Asn	Ala	Val	Asp	Asn	Ile	Met	Gln	Arg	Ala	Val	Lys
	130					135				140					
Arg	Gly	Leu	Ala	Arg	Arg	Lys	Ala	Pro	Gln	Ser	Ala	Arg	His	Leu	Cys
145					150					155				160	
Val	Asp	Glu	Val	Ala	Phe	Lys	Lys	Gly	His	Gln	Tyr	Val	Thr	Val	Ile
				165					170					175	
Ser	Asp	Thr	Gln	Gly	Gln	Ala	Leu	Glu	Leu	Arg	Asp	Asp	Arg	Gly	Val
			180					185					190		

Glu Ser Leu Ala Gly Tyr Leu
195 200

<210> 8911

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 8911

Ser	Leu	Gly	Asp	Arg	Gln	Ile	Glu	Ser	Ile	Lys	Thr	Leu	Ser	Met	Asp
1				5					10					15	
Met	Asn	Gln	Ala	Tyr	Ile	Ser	Ala	Ala	Arg	Ile	His	Leu	Pro	Asn	Ala
			20					25					30		
Val	Glu	Lys	Ile	Ala	Phe	Asp	His	Phe	His	Val	Ala	Lys	Met	Leu	Cys
		35					40					45			
Ala	Val	Val	Asp	Lys	Thr	Arg	Gln	Ser	Glu	Met	Arg	Ile	Ile	Pro	Leu
		50				55					60				
Gln	Ala	Arg	Lys	Ser	Ala	His	Arg	Ser	Arg	Tyr	Leu	Trp	Leu	Tyr	Gly
65					70					75					80
Arg	His	Lys	Arg	His	Gly	Arg	Ile	Ala	Glu	Arg	Leu	Glu	Ala	Ala	Gln
				85					90					95	
Met	Val	Leu	Pro	Cys	Gln	Arg	Gln								
			100					105							

<210> 8912

<211> 269

<212> PRT

<213> Enterobacter cloacae

<400> 8912

Gly	Ala	Ala	Val	Met	Tyr	Glu	Leu	Glu	Thr	Leu	Leu	Asn	Arg	Leu	Lys
1				5					10					15	
Met	Glu	His	Leu	Ser	Tyr	His	Val	Glu	Asn	Leu	Leu	Glu	Gln	Ala	Ala
			20					25					30		
Lys	Gln	Glu	Leu	Asn	Tyr	Arg	Glu	Phe	Leu	Cys	Met	Ala	Leu	Gln	Gln
		35					40					45			
Glu	Trp	Ser	Gly	Arg	His	Gln	Arg	Gly	Met	Glu	Ala	Arg	Leu	Lys	Gln
	50					55					60				
Ala	Arg	Leu	Pro	Trp	Val	Lys	Thr	Leu	Glu	Gln	Phe	Asp	Phe	Ser	Phe
65					70					75					80
Gln	Pro	Gly	Ile	Asp	Arg	Lys	Val	Val	Arg	Glu	Leu	Ala	Ser	Leu	Ala
				85					90					95	
Phe	Val	Glu	Arg	Ser	Glu	Asn	Val	Ile	Leu	Leu	Gly	Pro	Pro	Gly	Val
				100				105					110		
Gly	Lys	Thr	His	Leu	Ala	Val	Ala	Leu	Gly	Val	Lys	Ala	Ala	Asp	Ala
		115					120					125			
Gly	His	Arg	Val	Leu	Phe	Met	Pro	Leu	Asp	Arg	Leu	Val	Ala	Thr	Leu
	130					135					140				
Ile	Lys	Ala	Lys	Gln	Glu	Asn	Arg	Leu	Glu	Arg	Gln	Leu	Gln	Gln	Leu
145					150					155					160
Ser	Tyr	Ala	Arg	Val	Leu	Ile	Leu	Asp	Glu	Ile	Gly	Tyr	Leu	Pro	Met
				165					170					175	
Asn	Arg	Glu	Glu	Ala	Ser	Leu	Phe	Phe	Arg	Leu	Leu	Asn	Arg	Arg	Tyr
			180					185					190		
Glu	Lys	Ala	Ser	Ile	Ile	Leu	Thr	Ser	Asn	Lys	Gly	Phe	Ala	Asp	Trp
		195					200					205			
Gly	Glu	Met	Phe	Gly	Asp	Asn	Val	Leu	Ala	Thr	Ala	Ile	Leu	Asp	Arg
		210				215					220				
Leu	Leu	His	His	Ser	Thr	Thr	Leu	Asn	Ile	Lys	Gly	Glu	Ser	Tyr	Arg
225					230					235					240
Leu	Lys	Glu	Lys	Arg	Lys	Ala	Gly	Val	Leu	Ala	Lys	Ser	Ala	Thr	Pro

Ile Ser Asp Val Glu Met Val Glu Ser Gly Gln Arg
 245 250 255
 260 265

<210> 8913
 <211> 400
 <212> PRT
 <213> Enterobacter cloacae

<400> 8913
 Gly Ser His Thr Glu Lys Asp Ser Ser Met Leu Ser Arg Glu Asp Phe
 1 5 10 15
 Phe Met Ile Lys Gln Met Arg Gln Gln Gly Ala Tyr Ile Val Asp Ile
 20 25 30
 Ala Thr Gln Val Gly Cys Ser Glu Arg Thr Val Arg Arg Tyr Leu Lys
 35 40 45
 Tyr Pro Glu Pro Pro Ala Arg Lys Thr Arg His Lys Met Ala Lys Leu
 50 55 60
 Lys Pro Phe Met Asp Tyr Ile Asp Met Arg Leu Ala Glu Asn Val Trp
 65 70 75 80
 Asn Ser Glu Val Ile Leu Ala Glu Ile Arg Thr Met Gly Tyr Thr Gly
 85 90 95
 Gly Arg Ser Met Leu Arg Tyr Tyr Ile Gln Pro Lys Arg Lys Met Arg
 100 105 110
 Pro Ser Lys Lys Thr Val Arg Phe Glu Thr Gln Pro Gly Tyr Gln Leu
 115 120 125
 Gln His Asp Trp Gly Glu Val Glu Val Asp Val Ala Gly Gln Arg Cys
 130 135 140
 Arg Val Asn Phe Ala Val Asn Thr Leu Gly Phe Ser Arg Arg Phe His
 145 150 155 160
 Val Phe Ala Ala Pro Lys Gln Asp Ala Glu His Thr Tyr Glu Ser Leu
 165 170 175
 Val Arg Ala Phe Arg Tyr Phe Gly Gly Ser Val Lys Thr Val Leu Val
 180 185 190
 Asp Asn Gln Lys Ala Ala Val Leu Lys Asn Ser Asn Gly Asn Val Val
 195 200 205
 Phe Asn Ala Gly Phe Leu Leu Leu Ala Asp His Tyr Gly Phe Leu Pro
 210 215 220
 Arg Ala Cys Arg Pro Arg Arg Ala Arg Thr Lys Gly Lys Val Glu Arg
 225 230 235 240
 Met Val Lys Tyr Leu Lys Glu Asn Phe Phe Val Arg Tyr Arg Arg Phe
 245 250 255
 Asp Ser Phe Pro His Val Asn Gln Leu Leu Glu Gln Trp Ile Ala Asp
 260 265 270
 Val Ala Asp Arg Arg Glu Leu Arg Gln Phe Arg Glu Thr Pro Ala Glu
 275 280 285
 Arg Phe Val Val Glu Gln Thr His Leu Gln Pro Leu Pro Ala Thr Asp
 290 295 300
 Phe Asp Thr Ser Tyr Phe Asp Ile Arg His Val Ser Trp Asp Gly Tyr
 305 310 315 320
 Ile Glu Val Gly Gly Asn Arg Tyr Ser Val Pro Glu Ser Leu Cys Gly
 325 330 335
 His Pro Val Ser Ile Arg Ile Ser Leu Asp Asp Glu Leu Arg Ile Tyr
 340 345 350
 Ser Asn Glu Asn Leu Ala Ala Thr His Arg Leu Ser Gly Ala Ser Ser
 355 360 365
 Gly Trp Gln Thr Val Pro Glu His His Ala Pro Leu Trp Gln Gln Val
 370 375 380
 Ser Gln Val Glu His Arg Pro Leu Ser Ala Tyr Glu Glu Leu Leu
 385 390 395 400

<210> 8914
 <211> 111
 <212> PRT
 <213> Enterobacter cloacae

<400> 8914
 Gln Pro Glu Thr Ser Arg Cys Trp Ala Met Lys Glu Met Ala Arg Glu
 1 5 10 15
 Leu Trp Asn Arg Arg Tyr Asp Gly His Ser Arg Arg Leu Trp Leu Glu
 20 25 30
 Trp Ile Ala Met Ala Lys Asp Val Gly Val Pro Gln Leu Ser Ser Ala
 35 40 45
 Ala Arg Thr Leu Arg Lys Arg Leu Tyr Gly Ile Leu Asn Ala Met Lys
 50 55 60
 His Arg Val Ser Asn Gly Asn Ala Glu Ser Leu Asn Ser Lys Ile Arg
 65 70 75 80
 Leu Leu Arg Ile Lys Ser Arg Gly Tyr Arg Asn Lys Glu Arg Phe Lys
 85 90 95
 Ile Ala Val Met Phe His Tyr Gly Arg Leu Asn Met Gly Leu
 100 105 110

<210> 8915
 <211> 199
 <212> PRT
 <213> Enterobacter cloacae

<400> 8915
 Cys Ala Pro Asp Thr Pro Arg Ser Arg Gly Val Ser Leu Phe Leu Thr
 1 5 10 15
 Gly Glu Met Ile Met Ser Ser Arg Gly Val Asn Lys Val Ile Leu Val
 20 25 30
 Gly Asn Leu Gly Gln Asp Pro Glu Val Arg Tyr Ile Pro Asn Gly Ser
 35 40 45
 Ala Val Ala Thr Leu Ser Leu Ala Thr Ser Glu Ser Trp Arg Asp Lys
 50 55 60
 Gln Ser Gly Glu Gln Lys Glu Val Thr Glu Trp His Arg Val Val Ile
 65 70 75 80
 Phe Gly Lys Leu Ala Glu Ile Ala Gly Glu Tyr Leu Arg Lys Gly Ser
 85 90 95
 Gln Val Tyr Ile Glu Gly Gln Leu Arg Thr Arg Lys Trp Thr Asp Gln
 100 105 110
 Ala Gly Gln Asp Lys Tyr Thr Thr Glu Val Val Val Asn Ile Gly Gly
 115 120 125
 Thr Met Gln Met Leu Gly Gly Arg Gln Ser Gly Ser Gly Gln Asn Thr
 130 135 140
 Ser Ser Arg Asn Asp Trp Gly Gln Pro Gln Gln Pro Ser Gly Pro Thr
 145 150 155 160
 His Ser Gly Gln Ala Ser Gly Ser Ser Ala Gly Ala Pro Pro Met Asp
 165 170 175
 Phe Asp Asp Asp Ile Pro Phe Ile Gly Phe Gly Tyr Gly Val Pro Lys
 180 185 190
 Ser Ala Ile His Ala Leu
 195

<210> 8916
 <211> 704
 <212> PRT
 <213> Enterobacter cloacae

<400> 8916
 Arg Arg Gln Thr Met Ser Asn Arg Tyr Val Ile Glu Ala Leu Leu Arg

1	5	10	15
Pro Ala Val	Glu Leu Asn Thr Ala Val	Val Val Ser Gly Met Ala Ala Tyr	
	20	25	30
Val Cys Val	Gln Ala Pro Trp Ala Val	Ala Leu Ala Pro Ser Val Ser	
	35	40	45
Tyr Val Thr	Ala Ala Gly Phe Ala Ala	Leu Ala Val Thr Arg Thr His	
	50	55	60
Gln Gly Met	Lys Ile Ile Arg Tyr Arg	Arg Asn Leu Arg Arg Leu Pro	
65	70	75	80
Arg Tyr Val	Met Ser Thr Lys Gln Ile	Pro Val Ser His Arg Arg Leu	
	85	90	95
Phe Leu Gly	Arg Gly Phe Arg Trp Thr	Gln Lys His Thr Gln Arg Leu	
	100	105	110
Gln Asp Thr	Leu Arg Pro Glu Val Ala	Arg Tyr Leu Gln Pro Asn Arg	
	115	120	125
Phe Tyr Gln	Gly Ala Arg Gln Leu Glu	Leu Leu Thr Glu His Arg Leu	
	130	135	140
Pro Trp Leu	Gly Lys Leu Leu Ser Ala	Asp Thr Pro Leu Asn Pro Val	
145	150	155	160
Arg Pro Leu	Pro Pro Val Gly Gly Asn	Pro Ala Leu His Gly Ile Glu	
	165	170	175
Pro Asp Glu	Lys Asp Val Thr Leu Ala	Leu Gly Glu Arg Val Gly His	
	180	185	190
Thr Val Val	Tyr Gly Thr Thr Arg Val	Gly Lys Thr Arg Leu Ala Glu	
	195	200	205
Leu Leu Val	Thr Gln Asp Ile Arg Arg	Gly Glu Val Thr Ile Val Phe	
	210	215	220
Asp Pro Lys	Gly Asp Ala Asp Leu Met	Lys Arg Val Trp Ala Glu Ala	
225	230	235	240
His Arg Ala	Gly Arg Gly Asp Glu Leu	Tyr Ile Phe His Leu Gly Trp	
	245	250	255
Pro Glu Ile	Ser Ala Arg Tyr Asn Ala	Val Gly Arg Phe Gly Arg Val	
	260	265	270
Ser Glu Val	Ala Ser Arg Val Ala Gly	Gln Leu Ser Gly Glu Gly Asn	
	275	280	285
Ser Ala Ala	Phe Arg Glu Phe Ala Trp	Arg Phe Val Asn Ile Ile Ala	
	290	295	300
Arg Ala Leu	Val Ala Leu Gly Glu Arg	Pro Asp Tyr Thr Leu Ile Met	
305	310	315	320
Arg Tyr Val	Asn Asn Ile Ala Asp Leu	Tyr Ile Arg Tyr Ala Glu Lys	
	325	330	335
Ile Ile Gln	Ala Gln Leu Pro Ala Leu	Gln Thr Gln Ile Glu Asn Asn	
	340	345	350
Gln Gln Val	Leu Gly Glu Asp Asp Val	Pro Arg Asn Met Gln Gly Gln	
	355	360	365
Pro Asp Ala	Leu Arg Ile Trp Ala Ile	Glu Val Ala Leu Ser Ser Glu	
	370	375	380
Glu Gly Lys	Lys Leu Tyr Asp Pro Ile	Leu Asp Gly Leu Arg Ser Ala	
385	390	395	400
Val Arg Tyr	Asp Arg Thr Tyr Phe Asp	Lys Ile Val Ala Ser Leu Leu	
	405	410	415
Pro Leu Leu	Glu Lys Leu Thr Thr Gly	Lys Thr Ala Glu Leu Leu Ser	
	420	425	430
Pro Asp Tyr	Gln Asp Ile Asp Asp Thr	Arg Pro Ile Phe Asp Trp Glu	
	435	440	445
Gln Ile Ile	Arg Lys Lys Ala Val Val	Tyr Val Gly Leu Asp Ala Leu	
	450	455	460
Ser Asp Ser	Glu Val Ala Ser Ala Val	Gly Asn Ser Met Phe Ala Asp	
465	470	475	480
Leu Val Ser	Val Ala Gly His Ile Tyr	Lys His Gly Ile Asn Ala Gly	
	485	490	495

Leu Pro Gly Gly Lys Glu Gly Lys Ser Leu Ile Asn Leu His Cys Asp
 500 505 510
 Glu Phe Asn Glu Leu Met Gly Asp Glu Phe Ile Pro Leu Ile Asn Lys
 515 520 525
 Gly Gly Gly Ala Gly Met Gln Val Thr Ala Tyr Thr Gln Thr Ser Ser
 530 535 540
 Asp Ile Glu Ala Arg Ile Gly Asn Ala Ala Lys Thr Ala Gln Val Gln
 545 550 555 560
 Gly Asn Phe Asn Asn Leu Ile Met Leu Arg Val Arg Glu Asn Arg Thr
 565 570 575
 Ala Glu Leu Leu Thr Thr Gln Leu Pro Gln Val Glu Ile Tyr Thr Lys
 580 585 590
 Thr Leu Val Ser Gly His Gln Asp Thr Ala Asp Val Asn Ala Asp Gln
 595 600 605
 Asp Phe Thr Ser Ser Thr Gln Asp Arg Val Gly Thr Val Lys Val Pro
 610 615 620
 Leu Leu Glu Pro Ala Asp Ile Val Thr Leu Pro Lys Gly Gln Ala Phe
 625 630 635 640
 Ala Leu Leu Glu Gly Gly Gln Leu Trp Lys Ile Arg Met Pro Leu Pro
 645 650 655
 Ala Gly Asp Ala Asp Asp Val Leu Met Pro Glu Ser Ile Glu Lys Ile
 660 665 670
 Ala Glu Glu Met Arg Arg Ser Tyr His Ser Gly Glu Ser Trp Trp Arg
 675 680 685
 Asp Gly Pro Ala Leu Asn Val Pro Val Thr Gly Gly Ala Asn Gly
 690 695 700

<210> 8917

<211> 675

<212> PRT

<213> Enterobacter cloacae

<400> 8917

Arg Gly Arg Gln His Met Gln Leu Phe Leu Cys Glu Lys Pro Ser Gln
 1 5 10 15
 Ala Lys Asp Ile Ala Arg Val Leu Gly Ile Ser Lys Arg Glu Gln Gly
 20 25 30
 Phe Ile Ser Gly Gly Asn Ile Val Val Thr Trp Ala Val Gly His Leu
 35 40 45
 Leu Glu Thr Ala Ser Pro Glu Ala Tyr Gly Glu Gln Tyr Gly Arg Pro
 50 55 60
 Trp Arg Ala Asp Val Leu Pro Val Leu Pro Glu Ala Trp Lys Met Val
 65 70 75 80
 Val Lys Glu Gln Thr Lys Ser Gln Phe Thr Val Ile Ser Lys Leu Leu
 85 90 95
 Lys Lys Ala Ser Glu Val Val Ile Ala Thr Asp Ala Asp Arg Glu Gly
 100 105 110
 Glu Val Ile Ala Arg Glu Leu Leu Glu Tyr Cys His Tyr Ser Gly Ala
 115 120 125
 Val Arg Arg Leu Trp Leu Ser Ala Leu Asp Glu Ala Ser Val Lys Glu
 130 135 140
 Ala Leu Ser Ser Ile Leu Pro Gly Glu Lys Thr Ala Leu Leu Tyr Asp
 145 150 155 160
 Ala Gly Lys Gly Arg Ser Gln Ala Asp Trp Leu Ile Gly Met Asn Leu
 165 170 175
 Thr Arg Leu Tyr Thr Leu Lys Ala Arg Asp Ser Gly Val Ser Glu Val
 180 185 190
 Leu Ser Val Gly Arg Val Gln Thr Pro Thr Leu Ala Met Val Val Asn
 195 200 205
 Arg Asp Asn Glu Ile Thr Ser Phe Val Pro Lys Pro Trp Trp Gln Val
 210 215 220

His Ala Leu Ile Glu Lys Glu Gly Val Arg Phe Arg Ala Gly Trp Val
 225 230 235 240
 Pro Val Glu Gln Tyr Cys Asp Glu Glu Lys Arg Cys Ile Asn Pro Gln
 245 250 255
 Ala Ala Arg Ala Val Gly Gln Leu Cys Gln Gln Gly Arg Ala Thr
 260 265 270
 Val Leu Glu Val Thr Gln Lys Arg Glu Lys Thr Ala Ala Pro Leu Cys
 275 280 285
 Phe Asp Leu Gly Thr Leu Gln Gln Val Cys Ser Arg Lys Phe Gly Met
 290 295 300
 Gly Ala Asn Asp Val Leu Ala Ile Ala Gln Ser Leu Tyr Glu Thr His
 305 310 315 320
 Lys Ala Thr Thr Tyr Pro Arg Thr Asp Cys Gly Phe Leu Pro Thr Ser
 325 330 335
 Met Gln Gln Glu Ile Pro Asp Val Leu Ala Ala Val Ala Lys Ser Asp
 340 345 350
 Pro Ala Val Ala Pro Val Leu Asn Gln Leu Asp Arg Lys Phe Val Ser
 355 360 365
 Arg Val Trp Asn Asp Lys Lys Ile Thr Ala His His Ala Ile Ile Pro
 370 375 380
 Thr Arg Gln Ala Phe Asp Leu Ser Arg Leu Ser Ala Asp Glu Leu Lys
 385 390 395 400
 Val Tyr Gln Leu Ile Arg Gln His Tyr Phe Ala Gln Phe Leu Pro Leu
 405 410 415
 Gln Glu Ser Asp Val Thr Glu Ala Ser Phe Asn Ile Gly Gly Gln Leu
 420 425 430
 Phe Arg Thr Arg Gly Lys Val Gly Val Val Thr Gly Trp Lys Ser Leu
 435 440 445
 Phe Gln Ala Glu Lys Asp Asp Asp Glu Glu Asp Ala Asp Gly Asp Ser
 450 455 460
 Met Ala Leu Pro Ala Leu Ala Lys Gly Asp Ile Cys Ala Val Thr Gly
 465 470 475 480
 Ala Glu Val Lys Asp Met Lys Thr Ser Pro Pro Lys Pro Phe Thr Glu
 485 490 495
 Gly Thr Leu Ile Ala Ala Met Lys Asn Ala Ala Ser Phe Val Ser Asp
 500 505 510
 Pro Lys Leu Lys Lys Val Leu Arg Asp Asn Ala Gly Leu Gly Thr Glu
 515 520 525
 Ala Thr Arg Ala Gly Val Leu Glu Thr Leu Phe Lys Arg His Tyr Leu
 530 535 540
 Glu Lys Lys Gly Lys His Ile His Ser Thr Gln Val Ala Arg Glu Leu
 545 550 555 560
 Ile Ala Ala Leu Pro Glu Thr Leu Thr Ser Pro Gly Met Thr Ala Leu
 565 570 575
 Trp Glu Gln Ala Leu Asp Asp Ile Ser Gln Gly Lys Met Ser Leu Ala
 580 585 590
 Val Phe Met Gln Lys Gln Leu Gln Trp Thr Arg His Leu Val Glu Lys
 595 600 605
 Gly Arg Gln Asp Ser Val Lys Ile Thr Ala Pro Val Thr Pro Pro Cys
 610 615 620
 Pro Leu Cys Lys Gly Pro Thr Arg Lys Arg Lys Gly Lys Asn Gly Asp
 625 630 635 640
 Phe Trp Gly Cys Ile Arg Tyr Pro Asp Cys Glu Gly Ile Ile Ser Thr
 645 650 655
 Gly Lys Lys Lys Ala Ala Lys Arg Lys Lys Thr Ser Val Lys Ala Lys
 660 665 670
 Thr Glu
 675

<210> 8918

<211> 193

<212> PRT

<213> Enterobacter cloacae

<400> 8918

Ala	Val	Met	Ser	Ala	Pro	Tyr	Ile	Asn	Gly	Leu	Leu	Met	Ala	His	Pro
1				5					10					15	
Tyr	Gly	Ala	Val	Ile	Leu	Val	Val	Leu	Phe	Leu	Val	Val	Met	Val	Phe
			20					25					30		
Leu	Asn	Leu	Arg	Arg	Arg	Glu	Lys	Ala	Ser	Thr	Arg	Arg	His	Arg	Arg
		35					40					45			
Tyr	Arg	Ala	Thr	Ala	Gly	Arg	Val	Leu	Asn	Lys	Leu	Asn	Ser	Leu	Pro
	50					55					60				
Gly	Asp	Gly	Gln	Arg	Leu	Thr	Tyr	Leu	Arg	Lys	Ile	Ser	Pro	Tyr	Val
65					70					75					80
Phe	Glu	Glu	Leu	Leu	Leu	Ser	Ala	Phe	Glu	Arg	Gln	Gly	Leu	Thr	Val
			85						90					95	
Val	Arg	Asn	Ala	Ser	Tyr	Ser	Ala	Asp	Gly	Gly	Leu	Asp	Gly	Gln	Val
			100					105					110		
Ile	Ile	Asp	Gly	Glu	Tyr	Trp	Leu	Ile	Gln	Ala	Lys	Arg	Tyr	Ser	Arg
		115					120					125			
Ala	Val	Ser	Pro	Ala	His	Val	Glu	Asp	Phe	Asp	Arg	Leu	Leu	Leu	Gln
	130					135					140				
Thr	Gly	Arg	Arg	Gly	Leu	Phe	Val	His	Thr	Gly	Arg	Thr	Gly	Lys	Met
145					150					155					160
Ser	Arg	Ala	Ile	Arg	Thr	Thr	Ser	Pro	Arg	Leu	Arg	Ile	Ile	Ser	Gly
			165						170					175	
Gln	Arg	Leu	Leu	Thr	Ile	Leu	Ala	Gly	Gln	Asp	Val	Arg	Gln	Tyr	Leu
			180					185					190		

<210> 8919

<211> 494

<212> PRT

<213> Enterobacter cloacae

<400> 8919

Tyr	Leu	Met	Arg	Lys	Thr	Val	Lys	Lys	Thr	Pro	Ser	Phe	Ser	Ala	Ala
1				5					10					15	
Arg	Val	Ser	Leu	Leu	Leu	Thr	Gly	Ser	Leu	Leu	Thr	Val	Leu	Pro	Ala
			20					25					30		
Ala	His	Ala	Ala	Asp	Asp	Asp	Asn	Thr	Ile	Leu	Gly	Met	Ser	Leu	Pro
		35					40					45			
Gln	Val	Asn	Asn	Ser	Ala	Ile	Gly	Tyr	Gly	Lys	Ser	Val	Asp	Gly	Ala
	50					55					60				
Val	Ser	Asp	Lys	Leu	Phe	Tyr	Thr	Leu	Gly	Gly	Gly	Ser	Val	Ile	Ser
65					70					75					80
Gln	Pro	Ala	Thr	Arg	Gly	Asn	Met	Gln	Lys	Leu	Gly	Leu	Asn	Thr	Gly
			85						90					95	
Trp	Ser	Ser	Asp	Leu	Met	Cys	Gly	Asn	Phe	Asp	Leu	Lys	Thr	Thr	Val
			100					105					110		
Gly	Asn	Gln	Leu	Asn	Gly	Val	Thr	Ser	Gly	Phe	Lys	Asn	Leu	Met	Gly
		115					120					125			
Asp	Val	Ile	Gln	Gly	Ala	Thr	Gly	Ala	Val	Ala	Ser	Leu	Pro	Ala	Met
	130					135					140				
Val	Ile	Gln	Arg	Ala	Asn	Pro	Gly	Leu	Tyr	Asp	Met	Leu	Thr	Asn	Gly
145					150					155					160
Val	Leu	Gln	Ala	Asn	Val	Ser	Phe	Asp	Lys	Ala	Gln	Leu	Asn	Cys	Gln
			165						170					175	
Asn	Met	Ala	Lys	Lys	Met	Met	Asp	Phe	Ser	Asp	Ser	Ser	Asn	Trp	Thr
			180					185					190		

Gln	Gln	Ala	Met	Met	Asp	Glu	Tyr	Lys	Ser	Val	Val	Asn	Ser	Gly	Asp
		195					200					205			
Thr	Asp	Ala	Val	Arg	Ala	Asp	Glu	Ala	Gly	Arg	Lys	Val	Thr	Gly	Thr
	210					215					220				
Ser	Gly	Asn	Asn	Trp	Ile	Gly	Gly	Gln	Lys	Arg	Gly	Gly	Ala	Gly	Gln
225					230					235					240
Pro	Ala	Ile	Arg	Val	Thr	His	Asp	Leu	Val	Ala	Ala	Gly	Tyr	Asn	Met
				245					250					255	
Met	Asn	Gly	Leu	Pro	Val	Thr	Ala	Asn	Ser	Thr	Val	Gly	Glu	Ser	Ser
			260					265					270		
Cys	Asn	Gly	Gly	Ala	Cys	Ser	Lys	Phe	Gly	Ser	Ala	Glu	Glu	Ala	Ala
	275						280					285			
Ala	Met	Thr	Val	Lys	Val	Leu	Gly	Asp	Arg	Ser	Met	Arg	Thr	Cys	Ala
	290					295					300				
Asn	Ala	Ser	Glu	Cys	Thr	Ser	Gly	Asp	Ala	Asp	Asp	Gln	Pro	Gly	Thr
305					310					315					320
Thr	Val	Ala	Gly	Thr	Gly	Phe	Ala	Pro	Leu	Leu	Glu	Glu	Ala	Thr	Lys
				325				330						335	
Ala	Asn	Ala	Glu	Gln	Leu	Val	Arg	Leu	Val	Asn	Gly	Thr	Glu	Lys	Pro
			340					345					350		
Thr	Ala	Ala	Asn	Leu	Ala	Lys	Leu	Lys	Thr	Gly	Gly	Leu	Pro	Val	Thr
			355				360					365			
Ala	Gly	Val	Ile	Lys	Ala	Leu	Gln	Arg	Asp	Pro	Asp	Asn	Ala	Ala	Leu
	370					375					380				
Thr	Ala	Arg	Leu	Ala	Gly	Glu	Leu	Ala	Met	Ser	Asp	Thr	Val	Glu	Thr
385					390					395					400
Ala	Leu	Leu	Met	Arg	Arg	Met	Met	Val	Thr	Gly	Met	Ser	Glu	Pro	Asn
				405				410						415	
Ala	Ala	Ala	Gln	Pro	Lys	Ala	Ile	Asp	Thr	Ala	Gly	Gln	Arg	Ile	Glu
			420					425					430		
Ala	Leu	Asp	Arg	Glu	Ile	Ala	Ala	Leu	Lys	Asn	Glu	Met	Glu	Met	Lys
		435					440					445			
Arg	Glu	Leu	Ser	Arg	Asn	Ser	Val	Leu	Thr	Ile	Ile	Asp	Arg	Glu	Asn
	450				455						460				
Gln	Arg	Val	Glu	Thr	Asn	Pro	Gln	Thr	Gln	Ser	Asp	Asp	Asn	Thr	Asp
465					470					475					480
Ser	Arg	Phe	Asn	Gln	Met	Ala	Ala	Pro	Gln	Ser	Ala	Glu			
				485				490							

<210> 8920

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 8920

Arg	Gly	Ser	Leu	Lys	Ile	Thr	Lys	His	Cys	Phe	Trp	Arg	Pro	Gly	Met
1				5					10					15	
Thr	Ile	Ser	Ala	Lys	Arg	Val	Ser	Phe	Asp	Glu	Ala	Thr	Met	Trp	Val
			20					25					30		
Glu	Leu	Asn	Asp	Ala	Arg	Thr	Ile	Gly	Val	Pro	Leu	Ala	Trp	Phe	Pro
		35					40					45			
Arg	Leu	Leu	His	Ala	Ser	Thr	Glu	Gln	Leu	Asn	Ser	Tyr	Glu	Leu	Ser
	50					55					60				
Pro	Arg	Gly	Ile	His	Trp	Asp	Ala	Leu	Asp	Glu	Asp	Ile	Ser	Ile	Ala
65					70					75					80
Gly	Leu	Leu	Glu	Gly	Arg	Gly	Asp	Val	Thr	His	Arg	Pro	His	Lys	Val
				85					90					95	

Ala

<210> 8921

<211> 506
 <212> PRT
 <213> Enterobacter cloacae

<400> 8921

Asn	Arg	Arg	Pro	Ala	Met	Gln	Ile	Lys	Ser	Asn	Ala	Leu	Val	Lys	Phe
1				5					10					15	
Ile	Val	Pro	Ala	Val	Val	Ile	Ala	Gly	Leu	Ala	Val	Gly	Leu	Lys	Ser
		20						25					30		
Cys	Lys	Asn	Glu	Pro	Ala	Glu	Pro	Ser	Gln	Ala	Lys	Gln	Ser	Gly	Gly
		35					40					45			
Pro	Leu	His	Asn	Leu	Pro	Pro	Asp	Glu	Leu	Lys	Ala	Leu	Gly	Val	Glu
	50					55					60				
Gly	Asp	Thr	Pro	Glu	Asp	Thr	Leu	Arg	Thr	Leu	Ile	Gly	Arg	Leu	Asn
65					70					75					80
Asp	Val	Arg	Glu	Arg	Gln	Lys	Thr	Leu	Asp	Lys	Gln	Asn	Ala	Asp	Leu
			85						90					95	
Val	Lys	Glu	Asn	Glu	Arg	Leu	Arg	Arg	Arg	Asn	Gln	Asp	Val	Ser	Gly
			100						105				110		
Gln	Val	Asn	Glu	Ala	Val	Asn	Gly	Leu	Arg	Glu	Gln	Tyr	Asp	Lys	Arg
		115					120					125			
Gln	Ala	Gln	Leu	Gln	Asn	Glu	Gln	Leu	Ser	Leu	Thr	Ala	Lys	Ile	Gln
	130					135					140				
Glu	Leu	Thr	Asp	Lys	Leu	Lys	Lys	Pro	Asp	Ser	Glu	Lys	Lys	Thr	Ala
145				150						155					160
Asp	Ser	Asp	Ile	Pro	Leu	Gly	Leu	Gly	Leu	Asp	Gly	Met	Gly	Ser	Ser
			165						170					175	
Thr	Gly	Gly	Ala	Ala	Ser	Gln	Gly	Ser	Asp	Gly	Met	Met	Trp	Val	Ala
			180					185					190		
Pro	Thr	Asp	Gln	Lys	Glu	Ala	Asp	Pro	Arg	Asp	Ala	Ala	Ser	Gly	Lys
	195						200					205			
Ala	Ser	Pro	Gln	Phe	Pro	Thr	Ser	Phe	Leu	Gly	Glu	Asn	Glu	Leu	Thr
	210					215					220				
Arg	Gln	Lys	Ala	Ala	Tyr	Glu	Glu	Lys	Val	Lys	Gly	Arg	Thr	Asn	Glu
225					230					235					240
Lys	Gly	Ala	Glu	Glu	Ser	Ala	Glu	Pro	Val	Tyr	Thr	Leu	Pro	Glu	Asn
			245						250					255	
Ser	Thr	Leu	Val	Gly	Ser	Arg	Ala	Met	Thr	Ala	Leu	Leu	Gly	Arg	Val
		260						265					270		
Pro	Ile	Asn	Gly	Thr	Val	Thr	Asp	Pro	Tyr	Pro	Phe	Lys	Val	Leu	Ile
		275					280					285			
Gly	Lys	Asp	Asn	Leu	Thr	Ala	Asn	Gly	Ile	Glu	Leu	Pro	Asp	Val	Glu
	290					295					300				
Gly	Ala	Ile	Val	Ser	Gly	Thr	Ala	Ser	Gly	Asp	Trp	Thr	Leu	Ser	Cys
305					310					315					320
Val	Arg	Gly	Gln	Val	Asn	Ser	Ile	Thr	Phe	Val	Phe	Ser	Asp	Gly	Thr
			325						330					335	
Val	Arg	Thr	Leu	Pro	Arg	Pro	Asp	Thr	Ser	Asn	Asn	Ala	Gly	Gly	Gln
			340					345					350		
Asn	Asn	Asn	Ala	Gln	Ala	Lys	Gln	Asp	Thr	Ser	Thr	Ser	Gly	Gly	Ile
		355					360					365			
Gly	Trp	Ile	Ser	Asp	Glu	Asn	Gly	Ile	Pro	Cys	Ile	Gly	Gly	Glu	Arg
	370					375					380				
Lys	Ser	Asn	Ala	Ser	Thr	Tyr	Leu	Pro	Thr	Ile	Phe	Gly	Leu	Ser	Ala
385					390					395					400
Ala	Gly	Ala	Ala	Gly	Glu	Ala	Met	Ser	Gln	Gly	Gln	Tyr	Thr	Thr	Gln
			405						410					415	
Asn	Asn	Val	Asn	Gly	Ile	Ser	Ala	Thr	Met	Thr	Gly	Asp	Ala	Gly	Gln
			420					425					430		
Ala	Ala	Leu	Gly	Lys	Ala	Ile	Ser	Gly	Gly	Met	Ser	Glu	Thr	Thr	Asp
		435					440					445			

Trp Ile Lys Gln Arg Tyr Gly Met Thr Phe Asp Ala Ile Tyr Val Pro
 450 455 460
 Pro Gly Ala Arg Leu Ala Val His Ile Thr Arg Gln Leu Ala Ile Asp
 465 470 475 480
 Tyr Glu Glu Lys Gly Arg Lys Val Arg Tyr Asp Phe Thr Leu Pro Gly
 485 490 495
 Gly Val Ser Asp Asn Gly Gly Leu Asp
 500 505

<210> 8922

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 8922

Phe Glu Gly Arg Val Met Pro Ile Pro Leu Glu Gln Thr Met Cys Trp
 1 5 10 15
 Asp Lys Ser Ser Gln Lys Asn Ser Ala Asn Thr Pro Val Leu Met Met
 20 25 30
 Ala Ala Ile Ala Arg Leu Thr Gly Ser Asn Pro Ser Leu Ala Cys Val
 35 40 45
 Pro Leu Phe Gly Asp Gly Val Ser Cys Gly Phe Pro Ser Pro Ala Gln
 50 55 60
 Asp Tyr Val Glu Lys Arg Leu Ser Leu Asp Asp Leu Cys Ile Arg Tyr
 65 70 75 80
 Pro Glu Ser Thr Tyr Leu Val Arg Ala Glu Gly Asp Ser Met Leu Asn
 85 90 95
 Ala Gly Ile Lys Asp Gly Asp Leu Leu Ile Val Arg Tyr
 100 105

<210> 8923

<211> 476

<212> PRT

<213> Enterobacter cloacae

<400> 8923

Gly Phe Met Met Ser Lys Val Lys Gln Thr Asp Ile Asp Gln Leu Ile
 1 5 10 15
 Val Leu Val Gly Arg Asp Asn Ile Ala Thr Val Ser His Cys Ile
 20 25 30
 Thr Arg Leu Arg Phe Val Leu Asn Asp Pro Ala Lys Ala Asn Pro Lys
 35 40 45
 Ala Ile Glu Glu Leu Ser Met Val Lys Gly Cys Phe Thr Asn Ala Gly
 50 55 60
 Gln Phe Gln Val Val Ile Gly Thr Glu Val Gly Asp Tyr Tyr Gln Ala
 65 70 75 80
 Leu Leu Ala Thr Thr Gly His Ser Ser Ala Asp Lys Glu Gln Ala Lys
 85 90 95
 Lys Ala Ala Arg Gln Asn Met Lys Trp His Glu Gln Leu Ile Ser His
 100 105 110
 Phe Ala Glu Ile Phe Phe Pro Leu Leu Pro Ala Leu Ile Ser Gly Gly
 115 120 125
 Leu Ile Leu Gly Phe Arg Asn Val Ile Gly Asp Val Pro Met Ser Asp
 130 135 140
 Gly Lys Thr Leu Ala Gln Met Tyr Pro Ala Leu Gln Ser Ile Tyr Asp
 145 150 155 160
 Phe Leu Trp Leu Ile Gly Glu Ala Ile Phe Phe Tyr Leu Pro Val Gly
 165 170 175
 Ile Cys Trp Ser Ala Val Arg Lys Met Gly Gly Thr Pro Ile Leu Gly
 180 185 190
 Ile Val Leu Gly Val Thr Leu Val Ser Pro Gln Leu Met Asn Ala Tyr

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<210> 8924
<211> 565
<212> PRT
<213> Enterobacter cloacae
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Phe	Ser	Leu	Ser	Gly	Arg	Ser	Cys	Ala	Pro	Ser	His	Leu	Gln	Glu	Arg
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Thr	Met	Asn	Thr	Leu	Pro	His	Trp	Trp	Gln	Asn	Gly	Val	Ile	Tyr	Gln
		20						25					30		
Ile	Tyr	Pro	Lys	Ser	Phe	Gln	Asp	Thr	Thr	Gly	Ser	Gly	Thr	Gly	Asp
		35					40					45			
Leu	Arg	Gly	Val	Thr	Gln	Arg	Leu	Asp	Tyr	Leu	Lys	Thr	Leu	Gly	Ile
	50					55					60				
Asp	Ala	Ile	Trp	Leu	Thr	Pro	Phe	Tyr	Ile	Ser	Pro	Gln	Val	Asp	Asn
65					70					75				80	
Gly	Tyr	Asp	Val	Ala	Asn	Tyr	Thr	Ala	Ile	Asp	Pro	Thr	Tyr	Gly	Thr
				85					90					95	
Leu	Asp	Asp	Phe	Asp	Glu	Leu	Val	Ala	Arg	Ala	His	Glu	His	Gly	Ile
			100					105					110		
Arg	Ile	Val	Leu	Asp	Met	Val	Phe	Asn	His	Thr	Ser	Thr	Gln	His	Ala
		115					120					125			
Trp	Phe	Arg	Glu	Ser	Leu	Asp	Lys	Ala	Ser	Pro	Tyr	Arg	Gln	Phe	Tyr
	130					135					140				
Ile	Trp	Arg	Asp	Gly	Thr	Pro	Asp	Thr	Leu	Pro	Asn	Asn	Trp	Arg	Ser

145 150 155 160
 Lys Phe Gly Gly Asn Ala Trp Arg Trp His Ala Glu Ser Glu Gln Tyr
 165 170 175
 Tyr Leu His Leu Phe Ala Pro Glu Gln Ala Asp Leu Asn Trp Glu Asn
 180 185 190
 Pro Ala Val Arg Ala Glu Leu Lys Lys Val Cys Glu Phe Trp Ala Asp
 195 200 205
 Arg Gly Val Asp Gly Leu Arg Leu Asp Val Ile Asn Leu Val Ser Lys
 210 215 220
 Asp Gln Asp Phe Pro Asp Asp Thr Leu Gly Asp Gly Arg Arg Phe Tyr
 225 230 235 240
 Thr Asp Gly Pro Arg Ile His Glu Tyr Leu Gln Glu Met Ser Arg Asp
 245 250 255
 Val Phe Thr Pro Arg Asn Leu Met Thr Val Gly Glu Met Ser Ser Thr
 260 265 270
 Ser Leu Glu Asn Cys Gln Gln Tyr Ala Ser Leu Asp Gly Arg Glu Leu
 275 280 285
 Ser Met Thr Phe Asn Phe His His Leu Lys Val Asp Tyr Pro Gly Gly
 290 295 300
 Glu Lys Trp Thr Lys Ala Lys Pro Asp Phe Val Ala Leu Lys Thr Leu
 305 310 315 320
 Phe Arg His Trp Gln Gln Gly Met His Asn Lys Ala Trp Asn Ala Leu
 325 330 335
 Phe Trp Cys Asn His Asp Gln Pro Arg Ile Val Ser Arg Phe Gly Asp
 340 345 350
 Glu Gly Glu His Arg Val Ala Ala Ala Lys Met Leu Gly Met Val Leu
 355 360 365
 His Gly Met Gln Gly Thr Pro Tyr Ile Tyr Gln Gly Glu Glu Leu Gly
 370 375 380
 Met Thr Asn Pro His Phe Ser Arg Ile Thr Asp Tyr Arg Asp Val Glu
 385 390 395 400
 Ser Leu Asn Met Phe Ala Glu Gln Arg Ala Asn Gly Arg Asp Thr Asp
 405 410 415
 Glu Leu Leu Ala Ile Leu Ala Ser Lys Ser Arg Asp Asn Gly Arg Thr
 420 425 430
 Pro Met Gln Trp Asp Ala Ser His Asn Ala Gly Phe Thr Glu Ala Glu
 435 440 445
 Pro Trp Ile Gly Val Cys Asp Asn Tyr Glu Thr Val Asn Val Arg Ala
 450 455 460
 Ala Leu Asp Asp Pro Asp Ser Val Phe Tyr Thr Tyr Gln Ser Leu Ile
 465 470 475 480
 Arg Leu Arg Lys Thr Leu Pro Val Leu Thr Trp Gly Asp Tyr Glu Asp
 485 490 495
 Leu Leu Pro Asp His Pro Ser Leu Trp Cys Tyr Arg Arg Gln Trp Gln
 500 505 510
 Gly Gln Thr Leu Met Val Val Ala Asn Leu Ser His Leu Pro Gln Glu
 515 520 525
 Trp Gln Ala Asp Ala Leu Ser Gly Glu Ser Gln Val Val Ile Ser Asn
 530 535 540
 Tyr Pro Ala Pro His Thr Ser Met Leu Arg Pro Phe Glu Ala Val Trp
 545 550 555 560
 Trp Leu Lys Gln
 565

<210> 8925

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 8925

Gly His Gln Val Asn Ala Met Asn Tyr His Gln Tyr Tyr Pro Val Asp

1			5					10			15				
Ile	Val	Asn	Gly	Pro	Gly	Thr	Arg	Cys	Thr	Leu	Phe	Val	Ser	Gly	Cys
			20					25					30		
Val	His	Glu	Cys	Pro	Gly	Cys	Tyr	Asn	Lys	Ser	Thr	Trp	Arg	Leu	Asn
		35					40					45			
Ser	Gly	Met	Pro	Phe	Thr	Ala	Glu	Met	Glu	Asp	Arg	Ile	Ile	Asn	Asp
		50				55					60				
Leu	Asn	Asp	Thr	Arg	Ile	Lys	Arg	Gln	Gly	Ile	Ser	Leu	Ser	Gly	Gly
65					70					75				80	
Asp	Pro	Leu	His	Pro	Gln	Asn	Val	Pro	Glu	Ile	Leu	Lys	Leu	Val	Lys
				85				90						95	
Arg	Ile	His	His	Glu	Cys	Ala	Gly	Lys	Asp	Ile	Trp	Val	Trp	Thr	Gly
			100					105					110		
Tyr	Lys	Leu	Asp	Glu	Leu	Asn	Ala	Gln	Gln	Met	Glu	Val	Val	Asp	Leu
		115					120					125			
Ile	Asn	Val	Leu	Val	Asp	Gly	Lys	Phe	Met	Gln	Asp	Leu	Lys	Asp	Pro
	130					135					140				
Met	Leu	Ile	Trp	Arg	Gly	Ser	Ser	Asn	Gln	Val	Val	His	His	Leu	Arg
145					150					155					160

<210> 8926

<211> 196

<212> PRT

<213> Enterobacter cloacae

<400> 8926

Leu	Val	Thr	Leu	Ala	Ser	Phe	Phe	Lys	Glu	Pro	Asp	Met	Thr	Lys	Gln
1			5					10					15		
Pro	Glu	Asp	Trp	Leu	Asp	Asp	Val	Pro	Gly	Asp	Asp	Ile	Glu	Asp	Glu
			20					25					30		
Asp	Asp	Glu	Ile	Ile	Trp	Val	Ser	Lys	Ser	Glu	Ile	Lys	Arg	Asp	Ala
		35					40					45			
Glu	Glu	Leu	Lys	Lys	Leu	Gly	Ala	Glu	Met	Val	Glu	Leu	Gly	Lys	Asn
		50				55					60				
Ala	Leu	Asp	Lys	Ile	Pro	Leu	Asp	Gln	Asp	Leu	Arg	Asp	Ala	Ile	Glu
65					70					75				80	
Leu	Ala	Gln	Lys	Ile	Lys	Lys	Glu	Gly	Arg	Arg	Arg	Gln	Leu	Gln	Leu
				85				90					95		
Ile	Gly	Lys	Leu	Leu	Arg	Gln	Arg	Asp	Val	Glu	Pro	Ile	Arg	Gln	Ala
			100					105					110		
Leu	Asp	Lys	Leu	Lys	Asn	Arg	His	Asn	Gln	Gln	Val	Ala	Leu	Phe	His
		115					120					125			
Lys	Leu	Glu	Gln	Ile	Arg	Asp	Arg	Leu	Ile	Glu	Gln	Gly	Asp	Asp	Ala
		130				135					140				
Val	Pro	Glu	Val	Leu	Asn	Leu	Trp	Pro	Asn	Ala	Asp	Arg	Gln	Gln	Leu
145					150					155					160
Arg	Ser	Leu	Ile	Arg	Asn	Ala	Lys	Lys	Glu	Lys	Glu	Gly	Asn	Lys	Pro
				165					170					175	
Pro	Lys	Ser	Ala	Arg	Leu	Ile	Phe	Gln	Tyr	Leu	Arg	Glu	Leu	Ser	Glu
			180					185					190		
Asn	Glu	Glu													
		195													

<210> 8927

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 8927

Pro Val Arg Met Gly Ala Lys Lys Gln Arg His Leu Thr Val Ala Leu
 1 5 10 15
 Ser Phe Phe Arg Thr Gly Leu Cys Leu Thr Ser Tyr Arg Phe Gln Ser
 20 25 30
 Ala Leu Thr Arg Arg Pro Asn Val Gly Thr Arg Thr Ser Met His Cys
 35 40 45
 Arg Lys Ala Ser Gly Ser Thr Gly Glu Arg Ile His Arg Pro Trp Cys
 50 55 60
 Ala Arg His Gln Val Arg Pro Ala Trp His Tyr Gln Tyr Asp Lys Pro
 65 70 75 80
 His Pro Val Pro Phe Arg Ser Pro Glu Leu Arg Leu Asp Ser Gly Pro
 85 90 95
 Asp Cys Thr Thr Gly Ser Phe Arg Leu Cys Asn Phe Pro Ala Thr Gly
 100 105 110
 Arg Trp Ser Ser Ser Gly Cys Cys Leu Ala Trp Phe Val Asn Cys Arg
 115 120 125
 Lys Gln Ile Phe Ala Leu Leu Lys Leu Lys Leu Ile Glu Gln Ile Lys
 130 135 140
 Cys Leu Val Tyr Ala Gly His Cys Phe Gln Ile
 145 150 155

<210> 8928

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 8928

Gly Asn Thr Met Thr Leu Arg Asn Leu Leu Val Ala Ala Cys Leu Leu
 1 5 10 15
 Leu Pro Leu Met Ala Ser Ala His Asn Ile Glu Lys Gly Gln Arg Val
 20 25 30
 Pro Pro Val Gly Ile Ala Asp Arg Gly Glu Leu Ile Leu Asp Asn Asp
 35 40 45
 Lys Phe Ser Tyr Lys Thr Trp Asn Ser Ala Gln Leu Ala Gly Lys Val
 50 55 60
 Arg Val Val Gln His Ile Ala Gly Arg Thr Ser Ala Lys Glu Lys Asn
 65 70 75 80
 Ala Thr Leu Val Glu Ala Ile Lys Ala Ala Lys Leu Pro His Asp Arg
 85 90 95
 Tyr Gln Thr Thr Thr Ile Val Asn Thr Asp Asp Ala Ile Pro Gly Ser
 100 105 110
 Gly Met Phe Val Arg Ser Ser Leu Glu Asn Asn Lys Lys Leu Tyr Pro
 115 120 125
 Trp Ser Gln Tyr Met Val Asp Ser Asn Gly Val Thr Arg Lys Ala Trp
 130 135 140
 Gln Leu Glu Glu Glu Ser Ser Ala Ile Val Val Leu Asp Lys Asn Gly
 145 150 155 160
 Arg Val Glu Trp Val Lys Asp Gly Ala Leu Thr Gln Asp Glu Val Gln
 165 170 175
 Gln Val Val Ala Leu Leu His Lys Leu Leu Thr Gln
 180 185

<210> 8929

<211> 691

<212> PRT

<213> Enterobacter cloacae

<400> 8929

Thr Ile Pro Leu Ser Val Lys Gln Phe Trp Phe Gln Arg Pro Phe Phe
 1 5 10 15
 Trp Gln His Ser His Phe Cys Lys Gln Gln Ile Leu His Thr Tyr Ser

			20					25					30			
Phe	Val	Ala	Trp	Ile	Glu	Lys	Arg	Thr	Pro	Gln	Met	Ile	Lys	Phe	Ser	
		35					40					45				
Ala	Thr	Leu	Leu	Ala	Thr	Leu	Ile	Ala	Ala	Ser	Val	Gln	Ala	Ala	Thr	
	50					55					60					
Val	Asp	Leu	Arg	Ile	Leu	Glu	Thr	Thr	Asp	Leu	His	Ser	Asn	Met	Met	
65					70					75					80	
Asp	Phe	Asp	Tyr	Tyr	Lys	Asp	Thr	Pro	Thr	Glu	Lys	Phe	Gly	Leu	Val	
				85					90					95		
Arg	Thr	Ala	Ser	Leu	Ile	Asn	Ala	Ala	Arg	Gly	Glu	Val	Lys	Asn	Ser	
			100					105						110		
Val	Leu	Val	Asp	Asn	Gly	Asp	Leu	Ile	Gln	Gly	Ser	Pro	Leu	Gly	Asp	
		115					120					125				
Tyr	Met	Ala	Ala	Lys	Gly	Leu	Lys	Lys	Gly	Glu	Ile	His	Pro	Val	Tyr	
	130					135					140					
Lys	Ala	Met	Asn	Thr	Leu	Asp	Tyr	Ala	Val	Gly	Asn	Leu	Gly	Asn	His	
145					150					155					160	
Glu	Phe	Asn	Tyr	Gly	Leu	Lys	Tyr	Leu	His	Asp	Ala	Leu	Ala	Gly	Ala	
				165					170					175		
Lys	Phe	Pro	Tyr	Val	Asn	Ala	Asn	Ile	Ile	Asp	Val	Lys	Thr	Lys	Lys	
			180					185						190		
Pro	Arg	Phe	Thr	Pro	Tyr	Leu	Ile	Lys	Glu	Thr	Glu	Val	Val	Asp	Gln	
		195					200					205				
Asp	Gly	Lys	Lys	Gln	Thr	Leu	Lys	Ile	Gly	Tyr	Ile	Gly	Phe	Val	Pro	
	210					215					220					
Pro	Gln	Ile	Met	Thr	Trp	Asp	Lys	Ala	Asn	Leu	Asp	Gly	Lys	Val	Thr	
225					230					235					240	
Val	Asn	Asp	Ile	Thr	Glu	Thr	Ala	Arg	Lys	Tyr	Val	Pro	Lys	Met	Arg	
				245					250					255		
Ala	Lys	Gly	Ala	Asp	Val	Val	Val	Val	Val	Ala	His	Ser	Gly	Leu	Ser	
			260					265					270			
Ala	Asp	Pro	Tyr	Gln	Val	Met	Ala	Glu	Asn	Ser	Val	Tyr	Tyr	Leu	Ser	
		275					280					285				
Gln	Val	Pro	Gly	Val	Asp	Ala	Ile	Leu	Phe	Gly	His	Ala	His	Ala	Val	
	290					295					300					
Phe	Pro	Gly	Lys	Asp	Phe	Ala	Asp	Ile	Lys	Gly	Ala	Asp	Ile	Glu	Lys	
305					310					315					320	
Gly	Thr	Leu	Asn	Gly	Val	Pro	Ser	Val	Met	Pro	Gly	Met	Trp	Gly	Asp	
				325					330					335		
His	Leu	Gly	Val	Val	Asp	Leu	Val	Leu	Asn	Asn	Asp	Ser	Gly	Ser	Trp	
			340					345					350			
Lys	Val	Thr	Gln	Ser	Lys	Ala	Glu	Ala	Arg	Pro	Ile	Tyr	Asp	Ala	Ala	
		355					360					365				
Ala	Lys	Lys	Ser	Leu	Ala	Gly	Glu	Asp	Lys	Lys	Leu	Val	Asp	Val	Leu	
		370				375					380					
Lys	His	Asp	His	Asp	Ala	Thr	Arg	Glu	Phe	Val	Ser	Lys	Pro	Ile	Gly	
385					390					395					400	
Lys	Ser	Ala	Asp	Asn	Met	Tyr	Ser	Phe	Leu	Ala	Leu	Val	Gln	Asp	Asp	
				405					410					415		
Pro	Thr	Val	Gln	Val	Val	Asn	Met	Ala	Gln	Lys	Ala	Tyr	Ala	Glu	His	
			420					425					430			
Tyr	Ile	Gln	Gly	Asp	Pro	Asp	Leu	Ala	Asn	Leu	Pro	Val	Leu	Ser	Ala	
		435					440					445				
Ala	Ala	Pro	Phe	Lys	Val	Gly	Gly	Arg	Lys	Asn	Asp	Pro	Ala	Ser	Tyr	
		450				455					460					
Val	Glu	Val	Glu	Lys	Gly	Gln	Leu	Thr	Phe	Arg	Asn	Ala	Ala	Asp	Leu	
465					470					475					480	
Tyr	Leu	Tyr	Pro	Asn	Thr	Phe	Val	Val	Val	Lys	Ala	Thr	Gly	Lys	Glu	
				485					490					495		
Val	Lys	Glu	Trp	Leu	Glu	Cys	Ser	Ala	Gly	Gln	Phe	Asn	Gln	Ile	Asp	
			500					505					510			

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<210> 8930
<211> 717
<212> PRT
<213> Enterobacter cloacae
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Asn	Gly	Val	Ile	Met	Thr	Pro	His	Val	Met	Lys	Arg	Asp	Gly	Cys	Lys
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Val	Pro	Phe	Lys	Ser	Glu	Arg	Ile	Lys	Glu	Ala	Ile	Leu	Arg	Ala	Ala
			20					25					30		
Lys	Ala	Ala	Gly	Val	Asp	Asp	Ala	Asp	Tyr	Cys	Ala	Thr	Val	Ala	Glu
		35					40					45			
Val	Val	Ser	Ser	Gln	Met	His	Glu	Arg	Ser	Gln	Val	Asp	Ile	Asn	Glu
	50					55					60				
Ile	Gln	Thr	Ala	Val	Glu	Asn	Gln	Leu	Met	Ser	Gly	Pro	Tyr	Lys	Gln
65					70					75				80	
Leu	Ala	Arg	Ala	Tyr	Ile	Glu	Tyr	Arg	His	Asp	Arg	Asp	Val	Gln	Arg
				85					90					95	
Glu	Lys	Arg	Gly	Arg	Leu	Asn	Gln	Glu	Ile	Arg	Gly	Leu	Val	Glu	Gln
			100					105					110		
Thr	Asn	Ser	Ser	Leu	Leu	Asn	Glu	Asn	Ala	Asn	Lys	Asp	Ser	Lys	Val
		115					120					125			
Ile	Pro	Thr	Gln	Arg	Asp	Leu	Leu	Ala	Gly	Ile	Val	Ala	Lys	His	Tyr
	130					135					140				
Ala	Arg	Gln	His	Leu	Leu	Pro	Arg	Asp	Val	Val	Ser	Ala	His	Glu	Arg
145				150					155					160	
Gly	Glu	Ile	His	Tyr	His	Asp	Leu	Asp	Tyr	Ser	Pro	Phe	Phe	Pro	Met
				165					170					175	
Phe	Asn	Cys	Met	Leu	Ile	Asp	Leu	Lys	Gly	Met	Leu	Thr	His	Gly	Phe
			180					185					190		
Lys	Met	Gly	Asn	Ala	Glu	Ile	Glu	Pro	Pro	Lys	Ser	Ile	Ser	Thr	Ala
		195					200					205			
Thr	Ala	Val	Thr	Ala	Gln	Ile	Ile	Ala	Gln	Val	Ala	Ser	His	Ile	Tyr
	210					215					220				
Gly	Gly	Thr	Thr	Ile	Asn	Arg	Ile	Asp	Glu	Val	Leu	Ala	Pro	Phe	Val
225					230					235					240

Thr	Glu	Ser	Phe	Asn	Lys	His	Arg	Lys	Thr	Ala	Glu	Glu	Trp	Gln	Ile
				245					250					255	
Pro	Asn	Ala	Asp	Gly	Tyr	Ala	Arg	Ser	Arg	Thr	Glu	Lys	Glu	Cys	Tyr
			260					265						270	
Asp	Ala	Phe	Gln	Ser	Leu	Glu	Tyr	Glu	Val	Asn	Thr	Leu	His	Thr	Ala
		275					280					285			
Asn	Gly	Gln	Thr	Pro	Phe	Val	Thr	Phe	Gly	Phe	Gly	Leu	Gly	Thr	Ser
	290					295					300				
Trp	Glu	Ser	Arg	Leu	Ile	Gln	Gln	Ser	Ile	Leu	Arg	Asn	Arg	Ile	Ser
305					310					315				320	
Gly	Leu	Gly	Lys	Asn	Arg	Lys	Thr	Ala	Val	Phe	Pro	Lys	Leu	Val	Phe
				325					330					335	
Ala	Ile	Arg	Asp	Gly	Leu	Asn	His	Lys	Phe	Gly	Asp	Pro	Asn	Tyr	Asp
			340					345					350		
Ile	Lys	Gln	Leu	Ala	Leu	Glu	Cys	Ala	Ser	Lys	Arg	Met	Tyr	Pro	Asp
		355					360					365			
Ile	Leu	Asn	Tyr	Asp	Gln	Val	Val	Lys	Val	Thr	Gly	Ser	Phe	Lys	Thr
	370					375					380				
Pro	Met	Gly	Cys	Arg	Ser	Phe	Leu	Gly	Val	Tyr	Glu	Asp	Glu	Asn	Gly
385					390					395				400	
Glu	Gln	Ile	His	Asp	Gly	Arg	Asn	Asn	Leu	Gly	Val	Ile	Ser	Leu	Asn
				405					410					415	
Leu	Pro	Arg	Ile	Ala	Leu	Glu	Ala	Lys	Gly	Asn	Glu	Ala	Ala	Phe	Trp
			420					425					430		
Thr	Leu	Leu	Asp	Glu	Arg	Leu	Gln	Leu	Ala	Arg	Lys	Ala	Leu	Met	Thr
		435					440					445			
Arg	Ile	Ala	Arg	Leu	Glu	Gly	Val	Lys	Ala	Arg	Val	Ala	Pro	Ile	Leu
	450					455					460				
Tyr	Met	Glu	Gly	Ala	Cys	Gly	Val	Arg	Leu	Lys	Ala	Asp	Asp	Asp	Val
465					470					475				480	
Ser	Glu	Ile	Phe	Lys	Asn	Gly	Arg	Ala	Ser	Ile	Ser	Leu	Gly	Tyr	Ile
				485					490					495	
Gly	Ile	His	Glu	Thr	Ile	Asn	Ala	Leu	Phe	Gly	Asp	Lys	His	Ile	Tyr
		500						505					510		
Asp	Asn	Asp	Ala	Leu	Arg	Glu	Lys	Gly	Ile	Ala	Ile	Val	Gln	Arg	Leu
		515					520					525			
Arg	Asp	Ala	Val	Asp	Gln	Trp	Lys	Glu	Glu	Thr	Gly	Tyr	Gly	Phe	Ser
	530					535					540				
Leu	Tyr	Ser	Thr	Pro	Ser	Glu	Asn	Leu	Cys	Asp	Arg	Phe	Cys	Arg	Leu
545					550					555				560	
Asp	Thr	Ala	Glu	Phe	Gly	Ile	Val	Glu	Gly	Val	Thr	Asp	Lys	Gly	Tyr
				565					570					575	
Tyr	Thr	Asn	Ser	Phe	His	Leu	Asp	Val	Glu	Lys	Lys	Val	Asn	Pro	Tyr
		580						585					590		
Asp	Lys	Ile	Asp	Phe	Glu	Ala	Ala	Tyr	Pro	Pro	Ile	Ala	Asn	Gly	Gly
		595					600					605			
Phe	Ile	Cys	Tyr	Gly	Glu	Tyr	Pro	Asn	Ile	Gln	His	Val	Asn	Leu	Lys
	610					615					620				
Leu	Glu	Asp	Val	Trp	Asp	Tyr	Ser	Tyr	Gln	His	Val	Pro	Tyr	Tyr	Gly
625					630					635				640	
Thr	Asn	Thr	Pro	Ile	Asp	Glu	Cys	Tyr	Glu	Cys	Gly	Phe	Thr	Gly	Glu
				645					650					655	
Phe	Glu	Cys	Thr	Ser	Lys	Gly	Phe	Thr	Cys	Pro	Lys	Cys	Gly	Asn	His
			660					665					670		
Asp	Ala	Ala	Arg	Val	Ser	Val	Thr	Arg	Arg	Val	Cys	Gly	Tyr	Leu	Gly
		675					680					685			
Ser	Pro	Asp	Ala	Arg	Pro	Phe	Asn	Ala	Gly	Lys	Gln	Glu	Glu	Val	Lys
	690					695					700				
Arg	Arg	Val	Lys	His	Leu	Gly	Asn	Gly	Gln	Ile	Gly				
705					710					715					

<210> 8931
 <211> 350
 <212> PRT
 <213> Enterobacter cloacae

<400> 8931

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Asp Cys Trp Thr Ser Thr Ala Leu Leu Asn Ile Arg Cys Arg Glu Ser
1      5      10      15
Val Met Lys Thr Leu Gly Glu Phe Ile Val Glu Lys Gln His Glu Phe
      20      25      30
Ser His Ala Thr Gly Glu Leu Thr Ala Leu Leu Ser Ala Ile Lys Leu
      35      40      45
Gly Ala Lys Ile Ile His Arg Asp Ile Asn Lys Ala Gly Leu Val Asp
      50      55      60
Ile Leu Gly Ala Ser Gly Ala Glu Asn Val Gln Gly Glu Val Gln Gln
      65      70      75      80
Lys Leu Asp Leu Phe Ala Asn Glu Lys Leu Lys Ala Ala Leu Arg Ala
      85      90      95
Arg Asp Ile Val Ala Gly Ile Ala Ser Glu Glu Glu Asp Glu Ile Val
      100     105     110
Val Phe Glu Gly Cys Glu His Ala Lys Tyr Val Val Leu Met Asp Pro
      115     120     125
Leu Asp Gly Ser Ser Asn Ile Asp Val Asn Val Ser Val Gly Thr Ile
      130     135     140
Phe Ser Ile Tyr Arg Arg Val Thr Pro Val Gly Thr Pro Val Thr Glu
      145     150     155     160
Glu Asp Phe Leu Gln Pro Gly Ser Lys Gln Val Ala Ala Gly Tyr Val
      165     170     175
Val Tyr Gly Ser Ser Thr Met Leu Val Tyr Thr Thr Gly Cys Gly Val
      180     185     190
His Ala Phe Thr Tyr Asp Pro Ser Leu Gly Val Phe Cys Leu Cys Gln
      195     200     205
Glu Arg Met Arg Phe Pro Glu Lys Gly Asn Thr Tyr Ser Ile Asn Glu
      210     215     220
Gly Asn Tyr Ile Lys Phe Pro Asn Gly Val Lys Lys Tyr Ile Lys Phe
      225     230     235     240
Cys Gln Glu Glu Asp Lys Ala Thr Gln Arg Pro Tyr Thr Ser Arg Tyr
      245     250     255
Ile Gly Ser Leu Val Ala Asp Phe His Arg Asn Leu Leu Lys Gly Gly
      260     265     270
Ile Tyr Leu Tyr Pro Ser Thr Ala Ser His Pro Asp Gly Lys Leu Arg
      275     280     285
Leu Leu Tyr Glu Cys Asn Pro Met Ala Phe Leu Ala Glu Gln Ala Gly
      290     295     300
Gly Lys Ala Ser Asp Gly Lys Glu Arg Ile Leu Asp Ile Val Pro Glu
      305     310     315     320
Ser Leu His Gln Arg Arg Ser Phe Phe Val Gly Asn Arg His Met Val
      325     330     335
Asp Asp Val Glu Arg Met Ile Arg Glu Phe Pro Asp Ala
      340     345     350

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<210> 8932
 <211> 210
 <212> PRT
 <213> Enterobacter cloacae

<400> 8932

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Arg Arg Glu Gly Glu Lys Ser Lys Thr Gly Gly Asp Phe Gln Arg Gln
1      5      10      15
Leu Ala Ile Ile Pro Ala Thr Cys Leu Pro Ser Ile Leu Lys Asp Thr
      20      25      30

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Asp Met Ser Leu Leu Asn Val Pro Ala Gly Lys Glu Leu Pro Glu Asp
      35      40      45
Ile Tyr Val Val Ile Glu Ile Pro Ala Asn Ala Asp Pro Ile Lys Tyr
      50      55      60
Glu Ile Asp Lys Asp Thr Gly Ala Leu Phe Val Asp Arg Phe Met Ser
65      70      75      80
Thr Ala Met Phe Tyr Pro Cys Asn Tyr Gly Tyr Ile Asn His Thr Leu
      85      90      95
Ser Leu Asp Gly Asp Pro Val Asp Val Leu Val Pro Thr Pro Tyr Pro
      100      105      110
Leu Gln Pro Gly Ser Val Ile Arg Cys Arg Pro Val Gly Val Leu Lys
      115      120      125
Met Thr Asp Glu Ala Gly Glu Asp Ala Lys Leu Val Ala Val Pro His
      130      135      140
Thr Lys Leu Ser Lys Glu Tyr Asp His Ile Lys Asp Val Asn Asp Leu
145      150      155      160
Pro Glu Leu Leu Lys Ala Gln Ile Ala His Phe Phe Glu His Tyr Lys
      165      170      175
Asp Leu Glu Lys Gly Lys Trp Val Lys Val Glu Gly Trp Asp Asn Ala
      180      185      190
Glu Ala Ala Lys Ala Glu Ile Ile Ala Ser Phe Glu Arg Ala Ala Lys
      195      200      205
Lys
      210

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<210> 8933

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 8933

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Pro Lys Gln Arg Tyr Pro Gly Gly Pro Thr Val Ser Leu Phe Asp Lys
1      5      10      15
Lys His Leu Val Ser Gln Ala Asp Ala Leu Pro Gly Arg Asn Thr Pro
      20      25      30
Met Pro Val Ala Thr Leu His Ala Val Asn Asn His Ser Met Thr Asn
      35      40      45
Val Pro Asp Gly Met Glu Ile Ala Leu Phe Ala Met Gly Cys Phe Trp
      50      55      60
Gly Val Glu Arg Leu Phe Trp Gln Leu Pro Gly Val Tyr Ser Thr Ala
65      70      75      80
Ala Gly Tyr Thr Gly Gly Tyr Thr Pro Asn Pro Thr Tyr Arg Glu Val
      85      90      95
Cys Ser Gly Glu Thr Gly His Ala Glu Ala Val Arg Val Val Tyr Asp
      100      105      110
Pro Ser Val Ile Ser Tyr Glu Gln Leu Leu Gln Val Phe Trp Glu Asn
      115      120      125
His Asp Pro Ala Gln Gly Met Arg Gln Gly Asn Asp His Gly Thr Gln
      130      135      140
Tyr Arg Ser Ala Ile Tyr Pro Leu Thr Pro Glu Gln Glu Ala Ala Ala
145      150      155      160
His Ala Ser Leu Thr Arg Phe Gln Glu Ala Met Gln Ala Ala Gly Asp
      165      170      175
Lys Arg Gln Val Thr Thr Glu Ile Ala Thr Ala Lys Pro Phe Tyr Tyr
      180      185      190
Ala Glu Asp Asp His Gln Gln Tyr Leu His Lys Asn Pro Tyr Gly Tyr
      195      200      205
Cys Gly Ile Gly Gly Ile Gly Val Cys Leu Pro Pro Gln Gln Asp
      210      215      220

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<210> 8934

<211> 447

<212> PRT

<213> Enterobacter cloacae

<400> 8934

Thr	Met.	Leu	Asn	Ser	Ile	Leu	Val	Ile	Leu	Cys	Leu	Ile	Ala	Val	Ser
1				5					10					15	
Ala	Phe	Phe	Ser	Ile	Ser	Glu	Ile	Ser	Leu	Ala	Ala	Ser	Arg	Lys	Ile
			20					25					30		
Lys	Leu	Lys	Leu	Leu	Ala	Asp	Glu	Gly	Asn	Ile	Asn	Ala	Ser	Arg	Ile
		35					40					45			
Leu	Lys	Met	Gln	Glu	Asn	Pro	Gly	Met	Phe	Phe	Thr	Val	Val	Gln	Ile
	50					55					60				
Gly	Leu	Asn	Ala	Val	Ala	Ile	Leu	Gly	Gly	Ile	Val	Gly	Asp	Ala	Ala
65					70					75					80
Phe	Ser	Pro	Ala	Phe	Tyr	Gly	Leu	Phe	Val	Lys	Tyr	Met	Ser	Val	Glu
				85					90					95	
Leu	Ala	Glu	Gln	Leu	Ser	Phe	Ile	Leu	Ser	Phe	Ser	Leu	Val	Thr	Gly
			100					105					110		
Leu	Phe	Ile	Leu	Phe	Ala	Asp	Leu	Thr	Pro	Lys	Arg	Ile	Gly	Met	Ile
		115					120					125			
Ala	Pro	Glu	Ala	Val	Ala	Leu	Arg	Ile	Ile	Asn	Pro	Met	Arg	Phe	Cys
	130					135					140				
Leu	Tyr	Val	Phe	Arg	Pro	Leu	Val	Trp	Phe	Phe	Asn	Gly	Leu	Ala	Asn
145					150						155				160
Val	Ile	Phe	Arg	Ile	Phe	Lys	Leu	Pro	Met	Val	Arg	Lys	Asp	Asp	Ile
				165					170					175	
Thr	Ser	Asp	Asp	Ile	Tyr	Ala	Val	Val	Glu	Ala	Gly	Ala	Leu	Ala	Gly
			180					185					190		
Val	Leu	Arg	Lys	Gln	Glu	His	Glu	Leu	Ile	Glu	Asn	Val	Phe	Glu	Leu
		195					200					205			
Glu	Ser	Arg	Thr	Val	Pro	Ser	Ser	Met	Thr	Gly	Arg	Glu	Asn	Ile	Ile
	210					215					220				
Trp	Phe	Asp	Leu	His	Glu	Asp	Glu	Gln	Ser	Leu	Lys	Thr	Lys	Val	Ala
225					230					235					240
Gln	His	Pro	His	Ser	Lys	Phe	Leu	Val	Cys	Asn	Glu	Asp	Ile	Asp	His
				245					250					255	
Ile	Ile	Gly	Tyr	Val	Asp	Ser	Lys	Asp	Leu	Leu	Asn	Arg	Val	Leu	Ala
			260					265					270		
Asn	Gln	Ser	Leu	Ala	Leu	Asn	Ser	Gly	Val	Gln	Ile	Arg	Asn	Thr	Leu
		275					280					285			
Ile	Val	Pro	Asp	Thr	Leu	Thr	Leu	Ser	Glu	Ala	Leu	Glu	Ser	Phe	Lys
	290					295					300				
Thr	Ala	Gly	Glu	Asp	Phe	Ala	Val	Ile	Met	Asn	Glu	Tyr	Ala	Leu	Val
305					310					315					320
Val	Gly	Ile	Ile	Thr	Leu	Asn	Asp	Val	Met	Thr	Thr	Leu	Met	Gly	Asp
				325					330					335	
Leu	Val	Gly	Gln	Gly	Leu	Glu	Glu	Gln	Ile	Val	Gln	Arg	Asp	Glu	Asn
			340					345					350		
Ser	Trp	Leu	Ile	Asp	Gly	Gly	Thr	Pro	Ile	Glu	Asp	Val	Met	Arg	Val
		355					360					365			
Leu	Asp	Ile	Asp	Glu	Phe	Pro	Gln	Ser	Gly	Asn	Tyr	Glu	Thr	Ile	Gly
	370					375					380				
Gly	Phe	Met	Met	Phe	Met	Leu	Arg	Lys	Ile	Pro	Lys	Arg	Thr	Asp	Ser
385					390					395					400
Val	Lys	Phe	Ser	Gly	Phe	Lys	Phe	Glu	Val	Val	Asp	Ile	Asp	Asn	Tyr
				405					410					415	
Arg	Ile	Asp	Gln	Leu	Leu	Val	Thr	Arg	Ile	Asp	Ser	Lys	Pro	Thr	Val
			420					425					430		
Leu	Val	Pro	Lys	Leu	Pro	Asp	Ala	Glu	Glu	Lys	Val	Ser	Ala		
		435					440					445			

<210> 8935
 <211> 75
 <212> PRT
 <213> Enterobacter cloacae

<400> 8935
 Phe Ala Gly Asp Thr Arg Met Lys Ile Phe Gln Arg Tyr Asn Pro Leu
 1 5 10 15
 Gln Val Ala Lys Tyr Val Lys Ile Leu Phe Arg Gly Arg Leu Tyr Ile
 20 25 30
 Lys Asp Val Gly Ala Phe Glu Phe Asp Lys Gly Lys Ile Leu Ile Pro
 35 40 45
 Lys Val Lys Asp Lys Gln His Leu Ser Val Met Ser Glu Val Asn Arg
 50 55 60
 Gln Val Met Arg Leu Gln Thr Glu Met Ala
 65 70 75

<210> 8936
 <211> 980
 <212> PRT
 <213> Enterobacter cloacae

<400> 8936
 Ile Met Ser Leu Trp Lys Lys Ile Ser Leu Gly Val Leu Ile Phe Ile
 1 5 10 15
 Val Leu Leu Leu Gly Thr Val Ala Phe Leu Val Gly Thr Thr Thr Gly
 20 25 30
 Leu His Leu Leu Phe Asn Ala Ala Asn Arg Trp Val Pro Gly Leu Glu
 35 40 45
 Ile Gly Gln Val Thr Gly Gly Trp Arg Asp Leu Arg Lys Asn Ile
 50 55 60
 Arg Tyr Glu Gln Pro Gly Val Ala Val Asn Ala Gly Glu Phe His Leu
 65 70 75 80
 Ala Val Lys Leu Gly Cys Leu Arg Asp Ser Gln Leu Cys Val Asn Asp
 85 90 95
 Leu Ser Leu Lys Asp Val Asn Val Ala Ile Asp Ser Lys Lys Met Pro
 100 105 110
 Lys Ser Glu Pro Val Glu Glu Glu Asp Ser Gly Pro Leu Asn Leu Ser
 115 120 125
 Thr Pro Tyr Pro Ile Ala Leu Tyr Arg Val Ala Leu Asp Asn Val Asn
 130 135 140
 Ile Lys Ile Asp Asp Thr Thr Val Ser Val Met Asp Phe Thr Ser Gly
 145 150 155 160
 Leu Arg Trp Gln Glu Lys Asn Leu Thr Leu Thr Pro Thr Ser Leu Gln
 165 170 175
 Gly Leu Leu Ile Ala Leu Pro Lys Val Ala Asp Val Ala Gln Glu Glu
 180 185 190
 Ile Val Glu Pro Lys Ile Gln Asn Pro Gln Pro Glu Glu Lys Pro Leu
 195 200 205
 Gly Glu Thr Leu Lys Asp Leu Phe Ser Lys Pro Val Leu Pro Glu Met
 210 215 220
 Thr Asp Val His Leu Pro Leu Asn Leu Asn Ile Glu Glu Phe Lys Gly
 225 230 235 240
 Glu Gln Leu Arg Leu Thr Gly Asp Thr Asp Leu Thr Val Phe Asn Met
 245 250 255
 Leu Leu Lys Val Ser Ser Ile Asp Gly Asn Met Lys Leu Asp Ala Leu
 260 265 270
 Asp Ile Asp Ser Ser Gln Gly Ser Val Asn Ala Ser Gly Asn Ala Gln
 275 280 285
 Leu Arg Asp Asn Trp Pro Val Asp Ile Thr Leu Asn Ser Ala Leu Asn

Glu Val Asn Asp Ala Pro Leu Pro Val Ala Phe Asp Thr Leu Asn Val
 785 790 795 800
 Asn Ala Asp Leu Arg Asn Asn Arg Ala Glu Leu Gly Trp Leu Ile Arg
 805 810 815
 Leu Thr Asn Asn Gly Gln Phe Asp Gly Gln Val Gln Ile Thr Asp Pro
 820 825 830
 Gln Gly Arg Arg Asn Leu Gly Gly Asn Val Asn Ile Arg Asn Phe Asn
 835 840 845
 Leu Ala Met Val Asn Pro Ile Phe Ser Arg Gly Glu Lys Ala Ala Gly
 850 855 860
 Met Leu Ser Ala Asn Leu Arg Leu Ala Gly Asp Ala Gln Ser Pro Gln
 865 870 875 880
 Leu Phe Gly Gln Met Arg Leu Asn Gly Val Asp Ile Asp Gly Asn Phe
 885 890 895
 Met Pro Phe Asp Met Gln Pro Ser Gln Leu Thr Met Asn Phe Asn Gly
 900 905 910
 Gln Ser Ser Thr Leu Ser Gly Ser Val Leu Thr Gln Gln Gly Gln Ile
 915 920 925
 Asn Leu Ser Gly Asp Ala Asp Trp Ser Gln Leu Asp Asn Trp Arg Ala
 930 935 940
 Arg Ile Ala Ala Lys Gly Ser Arg Val Arg Ile Thr Val Pro Pro Met
 945 950 955 960
 Val Arg Leu Thr Phe Arg Arg Thr Gly Ala Trp Arg Gln Pro Gly Phe
 965 970 975
 Phe His Pro
 980

<210> 8937

<211> 278

<212> PRT

<213> Enterobacter cloacae

<400> 8937

Arg Arg Val Asp Val Pro Trp Arg Ala Ser Cys Ser Arg Ser Pro Gly
 1 5 10 15
 Lys Arg Gly Gly Val Ser Ser Asp Gly Val Met Leu Asn Glu Asn Leu
 20 25 30
 Lys Pro Val Glu Gln Lys Ser Ala Gly Ile Pro Ile Asn Ser Asn Leu
 35 40 45
 Ile Val His Val Gly Asn Asn Val Arg Leu Asp Ala Phe Gly Leu Lys
 50 55 60
 Ala Arg Leu Thr Gly Asp Leu Lys Val Ala Gln Asp Gln Gln Gly Leu
 65 70 75 80
 Gly Leu Asn Gly Gln Ile Asn Ile Pro Glu Gly Arg Phe His Ala Tyr
 85 90 95
 Gly Gln Asp Leu Ile Val Arg Lys Gly Glu Leu Leu Phe Ser Gly Pro
 100 105 110
 Pro Asp Gln Pro Val Leu Asn Ile Glu Ala Ile Arg Asn Pro Glu Ala
 115 120 125
 Thr Glu Asp Asp Val Ile Ala Gly Val Arg Val Thr Gly Ser Ala Asp
 130 135 140
 Glu Pro Lys Ala Glu Ile Phe Ser Asp Pro Ala Met Ser Gln Gln Glu
 145 150 155 160
 Ala Leu Ser Tyr Leu Leu Arg Gly Gln Gly Leu Asp Ser Gln Gln Gly
 165 170 175
 Asp Gly Ala Ala Met Thr Ser Met Leu Val Gly Leu Gly Val Ala Gln
 180 185 190
 Ser Gly Gln Val Val Gly Lys Ile Gly Glu Thr Phe Gly Val Ser Asn
 195 200 205
 Leu Ala Leu Asp Thr Gln Gly Val Gly Asp Ser Ser Gln Val Val Val
 210 215 220

Ser Gly Tyr Val Leu Pro Gly Leu Gln Val Lys Tyr Gly Val Gly Ile
 225 230 235 240
 Phe Asp Ser Leu Ala Thr Leu Thr Leu Arg Tyr Arg Leu Met Pro Lys
 245 250 255
 Leu Tyr Leu Glu Ala Val Ser Gly Val Asp Gln Ala Leu Asp Leu Leu
 260 265 270
 Tyr Gln Phe Glu Phe
 275

<210> 8938

<211> 351

<212> PRT

<213> Enterobacter cloacae

<400> 8938

Met Pro Ser Arg Arg Lys Glu Ser Asn Val Met Ser Arg Ser Leu Ser
 1 5 10 15
 Gln Thr Gly Glu Ala Lys Arg Arg Phe Thr Trp Pro Thr Gly Thr Pro
 20 25 30
 Gln Ile Val Ala Leu Leu Leu Val Leu Leu Val Asp Ser Leu Val Ala
 35 40 45
 Pro His Phe Phe Gln Ile Val Val Gln Asp Gly Arg Leu Phe Gly Ser
 50 55 60
 Pro Ile Asp Ile Leu Asn Arg Ala Ala Pro Val Ala Leu Leu Ala Ile
 65 70 75 80
 Gly Met Thr Leu Val Ile Ala Thr Gly Gly Ile Asp Leu Ser Val Gly
 85 90 95
 Ala Val Met Ala Ile Ala Gly Ala Thr Ala Ala Ser Met Thr Val Ala
 100 105 110
 Gly His Ser Leu Pro Val Val Leu Leu Ala Ala Leu Gly Ser Gly Val
 115 120 125
 Leu Ala Gly Leu Trp Asn Gly Ile Leu Val Ala Val Leu Lys Ile Gln
 130 135 140
 Pro Phe Val Ala Thr Leu Ile Leu Met Val Ala Gly Arg Gly Val Ala
 145 150 155 160
 Gln Leu Ile Thr Ser Gly Gln Ile Val Thr Phe Asn Ser Pro Ser Leu
 165 170 175
 Ala Trp Ile Gly Ser Gly Asn Phe Leu Phe Phe Pro Thr Pro Val Ile
 180 185 190
 Val Ala Leu Val Thr Leu Val Val Phe Trp Leu Phe Thr Arg Lys Thr
 195 200 205
 Ala Leu Gly Met Phe Ile Glu Ala Val Gly Ile Asn Ile Arg Ala Ala
 210 215 220
 Lys Asn Ala Gly Val Asn Thr Arg Leu Met Val Met Leu Thr Tyr Val
 225 230 235 240
 Leu Ser Gly Val Cys Ala Ala Ile Ala Gly Val Ile Val Ala Ala Asp
 245 250 255
 Ile Arg Gly Ala Asp Ala Asn Asn Ala Gly Leu Trp Leu Glu Leu Asp
 260 265 270
 Ala Ile Leu Ala Val Val Ile Gly Gly Gly Ser Leu Met Gly Gly Arg
 275 280 285
 Phe Asn Leu Leu Leu Ser Val Val Gly Ala Leu Ile Ile Gln Gly Met
 290 295 300
 Asn Thr Gly Ile Leu Leu Ser Gly Phe Gln Pro Glu Leu Asn Gln Val
 305 310 315 320
 Val Lys Ala Val Val Val Leu Ile Val Leu Ile Val Gln Ser Pro Arg
 325 330 335
 Phe Ile Thr Leu Ile Lys Arg Phe Arg Gly His Asp Lys Thr
 340 345 350

<210> 8939

<211> 403
 <212> PRT
 <213> Enterobacter cloacae

<400> 8939

Ser	Ser	Pro	Leu	Pro	Phe	Gly	Glu	Arg	Val	Arg	Val	Arg	Gly	Asn	Lys
1				5					10					15	
Pro	His	Thr	Pro	Glu	Gly	Ala	Thr	Met	His	Thr	Arg	Thr	Leu	Leu	Val
			20					25					30		
Ala	Ser	Leu	Ser	Met	Leu	Ala	Thr	Ala	Ala	Val	Ala	Gln	Thr	Gln	Tyr
		35					40					45			
Ala	Trp	Val	Gly	Thr	Tyr	Asn	Pro	Asn	Gly	Glu	Gly	Leu	Tyr	Arg	Phe
	50					55					60				
Thr	Val	Asp	Pro	Gln	Thr	Gly	Ala	Leu	Asn	Asp	Lys	Thr	Leu	Val	Ser
65					70					75					80
Lys	Leu	Pro	Asn	Ala	Ala	Gln	Leu	Thr	Val	Ser	His	Asp	Gly	Lys	Thr
			85						90					95	
Leu	Tyr	Leu	Ala	Ser	Glu	Val	Glu	Gln	Gly	Val	Val	Gln	Ala	Leu	Arg
			100					105					110		
Ile	Gly	Asp	Asn	Gly	Thr	Leu	Ser	Glu	Leu	Asn	Gln	Val	Ala	Ser	Gly
		115					120					125			
Gly	Ala	Gly	Pro	Val	Tyr	Leu	Ser	Leu	Thr	Pro	Asn	Gly	Lys	His	Leu
	130					135					140				
Leu	Val	Ala	Asn	Tyr	Ile	Ser	Gly	Thr	Val	Ala	Val	Leu	Pro	Val	Asn
145					150					155					160
Ala	Asp	Gly	Ser	Leu	Ser	Asp	Ala	Thr	Asp	Thr	His	Gln	Asp	Lys	Gly
			165						170					175	
Glu	Pro	Gly	Ala	Ala	Lys	Pro	Glu	Ala	Ala	Val	Glu	Gly	Ser	Phe	Ala
			180					185					190		
Ile	Ser	Asp	His	Asn	Gly	Pro	His	Ala	His	Met	Ile	Ala	Ala	Asp	Pro
		195					200					205			
Ser	Gly	Lys	Tyr	Val	Phe	Ser	Thr	Asp	Leu	Gly	Leu	Asp	Arg	Ile	Tyr
	210					215					220				
Gln	Tyr	Arg	Phe	Asp	Asp	Gln	Thr	Gly	Lys	Leu	Thr	Pro	Asn	Asp	Pro
225				230						235					240
Pro	Phe	Ile	Ser	Ala	Ser	Ser	Lys	Gly	Ala	Gly	Pro	Arg	His	Phe	Val
			245						250					255	
Phe	Thr	Pro	Lys	Gly	Asp	Ala	Leu	Trp	Leu	Ile	Asn	Glu	Glu	Ala	Ser
			260					265					270		
Thr	Leu	Thr	His	Tyr	Ala	Leu	Asp	Ser	Asn	Gly	Arg	Leu	Lys	Glu	Gly
		275					280					285			
Lys	Thr	Val	Ser	Ala	Leu	Pro	Asp	Gly	Tyr	Lys	Gly	Thr	Ser	Phe	Ala
	290					295					300				
Ala	Gly	Leu	Ala	Leu	Ser	Ala	Asp	Gly	Lys	Gln	Leu	Tyr	Val	Ala	Asn
305					310					315					320
Arg	Leu	His	Asn	Ser	Ile	Gly	His	Phe	Thr	Val	Thr	Ala	Glu	Gly	Thr
			325						330					335	
Leu	Thr	His	Gln	Asp	Asp	Val	Trp	Thr	Arg	Gly	Asp	Tyr	Pro	Arg	Thr
			340					345					350		
Leu	Thr	Leu	Asp	Lys	Gln	Gly	Arg	Trp	Leu	Tyr	Val	Met	Asn	Gln	Arg
		355					360					365			
Ser	Asp	Asn	Ile	Thr	Arg	Phe	Arg	Val	Ala	Pro	Asp	Gly	Lys	Leu	Ser
	370					375					380				
Ala	Glu	Pro	Asp	Tyr	Thr	Pro	Val	Gly	Ser	Pro	Ser	Gln	Met	Val	Ile
385					390					395					400
Ser	Pro														

<210> 8940
 <211> 258
 <212> PRT

<213> Enterobacter cloacae

<400> 8940

Val Met Pro Thr Ala Leu Thr Lys Arg Trp Arg Met Leu Asp Lys Ile
 1 5 10 15
 Cys Gln Leu Ala Arg Asp Ala Gly Asp Ala Ile Met Gln Val Tyr Asp
 20 25 30
 Gly Ala Lys Pro Met Asp Val Val Ser Lys Ala Asp Asp Ser Pro Val
 35 40 45
 Thr Ala Ala Asp Ile Ala Ala His Ala Val Ile Leu Lys Gly Leu Gln
 50 55 60
 Ala Leu Thr Pro Asp Ile Pro Val Leu Ser Glu Ala Pro Gln Ser
 65 70 75 80
 Trp Asp Glu Arg Gln His Trp Gln Arg Tyr Trp Leu Val Asp Pro Leu
 85 90 95
 Asp Gly Thr Lys Glu Phe Ile Lys Arg Asn Gly Glu Phe Thr Val Asn
 100 105 110
 Ile Ala Leu Ile Glu Asn Gly Lys Ala Val Leu Gly Val Val Tyr Ala
 115 120 125
 Pro Val Met Lys Val Met Tyr Ser Ala Ala Glu Gly Lys Ala Trp Lys
 130 135 140
 Glu Glu Cys Gly Val Arg Lys Gln Ile Gln Val Arg Asp Ala Arg Pro
 145 150 155 160
 Pro Leu Val Val Ile Ser Arg Ser His Ser Asp Ser Glu Leu Glu Glu
 165 170 175
 Tyr Leu Gln Gln Leu Gly Glu His Gln Thr Thr Ser Ile Gly Ser Ser
 180 185 190
 Leu Lys Phe Cys Leu Val Ala Glu Gly Gln Ala Gln Leu Tyr Pro Arg
 195 200 205
 Phe Gly Pro Thr Asn Val Trp Asp Thr Ala Ala Gly His Ala Val Ala
 210 215 220
 Ala Ala Ala Gly Ala His Val His Asp Trp Gln Gly Lys Pro Leu Asp
 225 230 235 240
 Tyr Thr Pro Arg Glu Ser Phe Leu Asn Pro Gly Phe Arg Val Ser Leu
 245 250 255
 Tyr

<210> 8941

<211> 620

<212> PRT

<213> Enterobacter cloacae

<400> 8941

Glu Ile Phe Gly Cys Tyr Thr Leu Phe Gln Pro Val Ile Trp Val Phe
 1 5 10 15
 Gly Phe Gln Ala Val Phe Cys Arg Gly Ala Ala Leu His Leu Leu Pro
 20 25 30
 Gly Trp Lys Gln Gly Tyr Ser Gly Glu Asn Val Thr Lys Ile Arg Gln
 35 40 45
 Leu Cys Leu Val Ser Leu Leu Leu Thr Ser Gly Ile Ala Ser Ala Ala
 50 55 60
 Asn Val Arg Leu Gln Val Glu Gly Leu Ser Gly Ala Leu Glu Lys Asn
 65 70 75 80
 Val Arg Ala Gln Leu Ser Thr Ile Gln Ser Asp Glu Val Thr Pro Asp
 85 90 95
 Arg Arg Phe Arg Ala Arg Val Asp Asp Ala Ile Arg Glu Gly Leu Lys
 100 105 110
 Ala Leu Gly Tyr Tyr Glu Pro Thr Ile Asp Phe Asp Leu Arg Pro Pro
 115 120 125
 Pro Ala Lys Gly Arg Gln Val Leu Ile Ala Arg Val Ser Pro Gly Glu

130	135	140
Pro Val Leu Ile Gly Gly Thr Asn Val Val Leu Arg Gly Gly Ala Arg		
145	150	155
Thr Asp Arg Asp Tyr Leu Asp Leu Leu Ser Thr Arg Pro Lys Val Gly		
	165	170
Thr Val Leu Asn His Gly Asp Tyr Asp Arg Phe Lys Lys Ser Leu Thr		
	180	185
Ser Val Ser Leu Arg Lys Gly Tyr Phe Asp Ser Gln Phe Asn Lys Ser		
	195	200
Gln Leu Gly Val Ala Leu Glu Arg Arg Gln Ala Phe Trp Asp Ile Asp		
	210	215
Tyr Asp Ser Gly Glu Arg Tyr Arg Phe Gly Asp Val Thr Phe Glu Gly		
225	230	235
Ser Gln Ile Arg Asp Glu Tyr Leu Gln Asn Leu Val Pro Phe Lys Lys		
	245	250
Gly Asp Tyr Tyr Gln Ser Ser Asp Leu Gly Glu Leu Asn Arg Arg Leu		
	260	265
Ser Ala Thr Gly Trp Phe Asn Ser Val Val Val Ala Pro Glu Phe Asp		
	275	280
Lys Ser Arg Lys Thr Lys Val Leu Pro Leu His Gly Val Val Ser Pro		
	290	295
Arg Thr Glu Asn Thr Ile Glu Thr Gly Val Gly Tyr Ser Thr Asp Val		
305	310	315
Gly Pro Arg Val Lys Ala Ser Trp Lys Lys Pro Trp Met Asn Ser Tyr		
	325	330
Gly His Ser Leu Thr Thr Ser Val Ser Leu Ser Ala Pro Glu Gln Gln		
	340	345
Leu Asp Phe Ser Tyr Lys Met Pro Leu Leu Lys Asn Pro Leu Glu Gln		
	355	360
Tyr Tyr Leu Val Gln Gly Gly Phe Lys Arg Thr Asp Leu Asn Asp Thr		
	370	375
Glu Gln Asp Ser Thr Thr Leu Ala Val Ser Arg Phe Trp Asp Leu Ser		
385	390	395
Ser Gly Trp Gln Arg Ala Ile Asn Leu Arg Trp Ser Leu Asp His Phe		
	405	410
Thr Gln Ala Asn Val Thr Asn Thr Thr Met Leu Leu Tyr Pro Gly Val		
	420	425
Met Ile Ser Arg Thr Arg Ser Arg Gly Gly Leu Met Pro Thr Trp Gly		
	435	440
Asp Ser Gln Arg Tyr Ser Ile Asp Tyr Ser Asn Thr Ala Trp Gly Ser		
	450	455
Asp Val Asp Phe Ser Val Phe Gln Ala Gln Asn Val Trp Ile Arg Thr		
465	470	475
Leu Tyr Asp Lys His Arg Phe Val Met Arg Gly Asn Leu Gly Trp Ile		
	485	490
Glu Thr Gly Asp Phe Glu Arg Val Pro Pro Asp Leu Arg Phe Phe Ala		
	500	505
Gly Gly Asp Arg Ser Ile Arg Gly Tyr Lys Tyr Lys Ser Ile Ser Pro		
	515	520
Glu Asn Asp Lys Gly Gln Leu Thr Gly Ala Ser Lys Leu Ala Thr Gly		
	530	535
Ser Leu Glu Tyr Gln Tyr Asn Val Ser Gly Lys Trp Trp Gly Ala Met		
545	550	555
Phe Val Asp Gly Gly Glu Ala Val Asn Asp Ile Arg Arg Ser Asp Phe		
	565	570
Lys Thr Gly Ala Gly Val Gly Val Arg Trp Gln Ser Pro Val Gly Pro		
	580	585
Ile Lys Leu Asp Phe Ala Val Pro Val Gly Asp Lys Asp Glu His Gly		
	595	600
Leu Gln Phe Tyr Ile Gly Leu Gly Pro Glu Leu		
610	615	620

1	5	10	15
Asn Ile Met Leu Lys Thr Leu Ser Ile Arg Thr Gly Leu Leu Ser Leu			
20	25	30	
Leu Ala Val Met Thr Leu Leu Leu Ile Val Ser Gly Ile Gly Ile			
35	40	45	
Tyr Ala Leu Thr Gln Ser Ser Ala Ser Leu Gln Arg Ile Asn His Leu			
50	55	60	
Gln Gly Glu Gln Met Val Gln Leu Asn Ala Gly Tyr Thr Leu Ile Leu			
65	70	75	80
Arg Ala Arg Asn Glu Ala Gly Gln Ala Val Arg Met Met Glu Val Gly			
85	90	95	
Leu Leu Asp Asp Ala Ala Arg Ala Val Lys Thr Ile Asn Gln Glu Val			
100	105	110	
Ala Leu Ala Gln Lys Thr Leu Lys Asp Val Ile Gly Ser Gly Val Ala			
115	120	125	
Asp Glu Gln Gly Gln Lys Leu Leu Asp Asn Val Ala Ala Ser Leu Ala			
130	135	140	
Val Tyr Asn Gln Gln Gly Ile Ser Pro Met Leu Lys Ala Leu Asn Glu			
145	150	155	160
Gln Ser Ala Asp Ser Tyr Tyr Asp Leu Leu Glu Asn Lys Leu Val Pro			
165	170	175	
Val Ala Lys Gln Phe Asp Asn Asp Met Gln Ala Phe Gln Ala Trp Ser			
180	185	190	
Glu Ala Arg Gly Lys Ala Glu Val Ser Ala Val Gln Ala Ser Lys Thr			
195	200	205	
Arg Val Leu Ile Leu Ile Ile Val Ala Ala Leu Leu Thr Ala Gly Ile			
210	215	220	
Ile Val Leu Ala Trp Leu Val Leu Arg His Met Leu Leu Glu Pro Leu			
225	230	235	240
Ser Ala Ser Ile Ala Gln Leu Glu His Val Ala Ala Gly Asp Leu Thr			
245	250	255	
His Thr Leu Asn Ala Pro Ala Ser Gln Glu Phe Asn Arg Leu Asn Ala			
260	265	270	
Ala Ile Glu Gly Met Arg Gln Ser Leu Met Asp Ser Val Leu Arg Val			
275	280	285	
Arg Asp Ala Ser Ser Gln Ile Asp Thr Gly Ser Arg Glu Leu Thr Ala			
290	295	300	
Gly Asn Met Asn Leu Ala Gln Arg Thr Glu Ser Thr Ala Thr Ser Leu			
305	310	315	320
Glu Gln Thr Ala Ala Ser Met Glu Glu Ile Thr Ala Thr Val Lys Leu			
325	330	335	
Asn Ala Asp Asn Ala Glu Gln Ala His Gln Leu Ala Lys Ser Val Ser			
340	345	350	
Asp Thr Ala Asp His Gly Ser Glu Met Val Cys Tyr Val Ile Glu Lys			
355	360	365	
Met Arg Asp Ile Ser Gly Ser Ser Ala Arg Ile Ala Asp Ile Leu Ser			
370	375	380	
Val Ile Asp Gly Ile Ala Phe Gln Thr Asn Ile Leu Ala Leu Asn Ala			
385	390	395	400
Ser Val Glu Ala Ala Arg Ala Gly Glu Gln Gly Arg Gly Phe Ala Val			
405	410	415	
Val Ala Gly Glu Val Arg Asn Leu Ala Ser Arg Ser Ala Asp Ala Ala			
420	425	430	
Lys Glu Ile His Ser Leu Ile Ser Asp Ser Gln Thr His Val Asn Glu			
435	440	445	
Gly Ser Glu Leu Ala Gln Gln Ala Gly Glu Thr Met Asp Glu Ile Ala			
450	455	460	
Thr Glu Val Leu Arg Met Thr Lys Leu Met Arg Glu Ile Ala Thr Ala			
465	470	475	480
Ser Gln Glu Gln Ser Arg Gly Ile Glu Gln Val Asn Ile Ala Val Asn			
485	490	495	

Gln Met Asp Glu Thr Ala Gln Gln Asn Ala Ala Leu Val Gln Gln Ser
 500 505 510
 Ser Ala Ala Thr Arg Ser Leu Glu Glu Gln Ser Arg Glu Leu Met Glu
 515 520 525
 Ala Met Ala Ser Phe Lys Leu Thr Thr Gln Thr Ala
 530 535 540

<210> 8944

<211> 459

<212> PRT

<213> Enterobacter cloacae

<400> 8944

Arg Met Arg Ile His Ile Leu Gly Ile Cys Gly Thr Phe Met Gly Gly
 1 5 10 15
 Leu Ala Met Leu Ala Arg Ser Leu Gly His Glu Val Thr Gly Ser Asp
 20 25 30
 Ala Asn Val Tyr Pro Pro Met Ser Thr Leu Leu Glu Lys Gln Gly Ile
 35 40 45
 Ser Leu Ile Gln Gly Tyr Asp Ala Ser Gln Leu Glu Pro Gln Pro Asp
 50 55 60
 Leu Val Ile Val Gly Asn Ala Met Thr Arg Gly Asn Pro Cys Val Glu
 65 70 75 80
 Ala Val Leu Glu Arg Asn Ile Pro Tyr Met Ser Gly Pro Gln Trp Leu
 85 90 95
 His Asp Phe Val Leu Arg Asp Arg Trp Val Val Ala Val Ala Gly Thr
 100 105 110
 His Gly Lys Thr Thr Thr Ala Gly Met Ala Thr Trp Ile Leu Glu Ala
 115 120 125
 Cys Gly Tyr Lys Pro Gly Phe Val Ile Gly Gly Val Pro Gly Asn Phe
 130 135 140
 Asp Val Ser Ala Arg Leu Gly Asp Ser Pro Phe Phe Val Ile Glu Ala
 145 150 155 160
 Asp Glu Tyr Asp Cys Ala Phe Phe Asp Lys Arg Ser Lys Phe Val His
 165 170 175
 Tyr Cys Pro Arg Thr Leu Ile Leu Asn Asn Leu Glu Phe Asp His Ala
 180 185 190
 Asp Ile Phe Asp Asp Leu Lys Ala Ile Gln Lys Gln Phe His His Leu
 195 200 205
 Val Arg Ile Val Pro Gly Gln Gly Arg Ile Ile Leu Pro Glu Asn Asp
 210 215 220
 Ile Asn Leu Lys Gln Thr Met Ala Met Gly Cys Trp Ser Glu Gln Glu
 225 230 235 240
 Leu Val Gly Glu Gln Gly His Trp Gln Ala Lys Lys Leu Asn Ala Asp
 245 250 255
 Ala Ser Glu Trp Glu Val Leu Leu Asp Gly Glu Lys Val Gly Glu Val
 260 265 270
 Lys Trp Gly Leu Val Gly Glu His Asn Met His Asn Gly Leu Met Ala
 275 280 285
 Ile Ala Ala Ala Arg His Val Gly Val Leu Pro Ala Asp Ala Ala Asn
 290 295 300
 Ala Leu Gly Thr Phe Ile Asn Ala Arg Arg Arg Leu Glu Leu Arg Gly
 305 310 315 320
 Glu Ala His Gly Val Thr Val Tyr Gly Asp Phe Ala His His Pro Thr
 325 330 335
 Ala Ile Leu Ala Thr Leu Ala Ala Leu Arg Gly Lys Val Gly Gly Thr
 340 345 350
 Ala Arg Ile Leu Ala Val Leu Glu Pro Arg Ser Asn Thr Met Lys Met
 355 360 365
 Gly Ile Cys Lys Asp Asp Leu Ala Pro Ser Leu Gly Arg Ala Asp Glu
 370 375 380

Val	Phe	Leu	Leu	Gln	Pro	Gln	His	Ile	Pro	Trp	Gln	Val	Ala	Glu	Val
385					390					395					400
Ala	Asp	Ala	Cys	Ile	Gln	Pro	Ala	His	Trp	Ser	Ala	Asp	Val	Asp	Val
				405					410					415	
Leu	Ala	Asp	Met	Val	Val	Lys	Ala	Ala	Gln	Pro	Gly	Asp	His	Ile	Leu
			420					425					430		
Val	Met	Ser	Asn	Gly	Gly	Phe	Gly	Gly	Ile	His	Gln	Lys	Leu	Leu	Asp
		435					440					445			
Gly	Leu	Ala	Lys	Lys	Ala	Ala	Ala	Ala	Glu						
	450					455									

<210> 8945

<211> 392

<212> PRT

<213> Enterobacter cloacae

<400> 8945

Tyr	Pro	Arg	Ala	Leu	Arg	Arg	Pro	Pro	Tyr	Gln	Glu	Asn	Pro	Met	Phe
1				5					10					15	
Asp	Leu	Leu	Leu	Arg	Arg	Ala	Arg	Leu	Ala	Asp	Asp	Thr	Leu	Thr	Asp
			20					25					30		
Ile	Ala	Ile	Gln	Asp	Gly	Lys	Ile	Ala	Ala	Thr	Gly	Asp	Ile	Asn	Ala
		35					40					45			
Pro	Ala	Arg	Lys	Thr	Val	Glu	Leu	Asn	Gly	Asp	Val	Phe	Val	Ser	Ala
	50					55				60					
Gly	Trp	Ile	Asp	Ser	His	Val	His	Cys	Tyr	Pro	Asn	Ser	Pro	Ile	Tyr
65				70					75					80	
His	Asp	Glu	Pro	Asp	Ser	Val	Gly	Ile	Ala	Thr	Gly	Val	Thr	Thr	Val
			85						90					95	
Val	Asp	Ala	Gly	Ser	Thr	Gly	Ala	Asp	Val	Asp	Asp	Phe	Tyr	Ala	
			100					105				110			
Ile	Thr	Arg	Lys	Ala	Ser	Thr	Glu	Val	Phe	Ala	Leu	Leu	Asn	Ile	Ser
		115					120					125			
Arg	Val	Gly	Leu	Ile	Ala	Gln	Asn	Glu	Leu	Ala	Asn	Met	Ala	Asn	Ile
	130					135					140				
Asp	Ala	Asp	Ala	Val	Lys	Glu	Ala	Val	Lys	Arg	His	Pro	Asp	Phe	Ile
145				150					155					160	
Val	Gly	Leu	Lys	Ala	Arg	Met	Ser	Ser	Ser	Val	Val	Gly	Glu	Asn	Gly
			165						170					175	
Ile	Thr	Pro	Leu	Ala	Arg	Ala	Lys	Ala	Ile	Gln	Lys	Glu	Asn	Gly	Asp
		180					185						190		
Leu	Pro	Leu	Met	Val	His	Ile	Gly	Asn	Asn	Pro	Pro	Asn	Leu	Asp	Glu
	195						200					205			
Ile	Ala	Glu	Leu	Leu	Ser	Ser	Gly	Asp	Ile	Ile	Thr	His	Cys	Tyr	Asn
	210				215						220				
Gly	Lys	Pro	Asn	Arg	Ile	Leu	Thr	Pro	Ser	Gly	Glu	Leu	Arg	Ala	Ser
225				230					235					240	
Ile	Thr	Ser	Ala	Leu	Lys	Arg	Gly	Val	Arg	Leu	Asp	Val	Gly	His	Gly
			245						250					255	
Thr	Ala	Ser	Phe	Ser	Phe	Glu	Val	Ala	Lys	Arg	Ala	Ile	Ala	Met	Gly
		260						265					270		
Ile	Leu	Pro	His	Thr	Ile	Ser	Ser	Asp	Ile	Tyr	Cys	Arg	Asn	Arg	Ile
		275				280						285			
Asn	Gly	Pro	Val	Gly	Ser	Leu	Ala	Ser	Val	Met	Ser	Lys	Phe	Leu	Ala
	290					295				300					
Ile	Gly	Met	Ser	Leu	Pro	Gln	Val	Ile	Asp	Cys	Val	Thr	Ala	Asn	Ala
305				310					315					320	
Ala	Asp	Gly	Leu	Arg	Leu	Thr	Arg	Lys	Gly	Arg	Ile	Gln	Pro	Gly	Leu
			325						330					335	
Asp	Ala	Asp	Leu	Thr	Leu	Phe	Thr	Leu	Lys	Arg	Gln	Pro	Thr	Val	Leu
			340					345						350	

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Thr Asp Ala Glu Asn Asp Ser Leu Gln Ala Glu His Ile Leu Val Pro
 355 360 365
 Leu Ala Ala Ile Arg Ala Gly Lys Gly Tyr Met Thr Glu Gln Gly Ser
 370 375 380
 Thr Glu His Ala Phe Asp Leu
 385 390

<210> 8946

<211> 641

<212> PRT

<213> Enterobacter cloacae

<400> 8946

Glu Asp Asn Asp Val Arg Phe Pro Asn Gln Arg Leu Ala Gln Leu Phe
 1 5 10 15
 Asp Leu Leu Gln Asn Glu Thr Leu Pro Gln Asp Glu Leu Ala Gln Arg
 20 25 30
 Leu Ser Val Ser Thr Arg Thr Val Arg Ala Asp Ile Thr Ala Leu Asn
 35 40 45
 Ala Leu Leu Ala Ser His Gly Ala Gln Phe Ile Leu Ser Arg Gly Asn
 50 55 60
 Gly Tyr Gln Leu Lys Ile Asn Asp Val Ala Arg Tyr Gln Gln Leu Gln
 65 70 75 80
 Ala Ser His Pro Arg Ala Leu Arg Ile Pro Arg Thr Gly Pro Glu Arg
 85 90 95
 Val His Tyr Leu Val Val Arg Phe Leu Thr Ser Ala Phe Ser Ile Lys
 100 105 110
 Leu Glu Asp Leu Ala Asp Glu Trp Phe Val Ser Arg Ala Thr Leu Gln
 115 120 125
 Ser Asp Met Val Glu Val Arg Glu Trp Phe His Arg Tyr Asn Leu Thr
 130 135 140
 Leu Glu Thr Arg Pro Arg His Gly Met Lys Leu Phe Gly Ser Glu Met
 145 150 155 160
 Ala Ile Arg Ala Cys Leu Thr Asp Leu Leu Trp Glu Leu Ala Gln Gln
 165 170 175
 Asp Ser Leu Asn Pro Leu Val Thr Asp Val Ala Leu Asn Ala Gly Val
 180 185 190
 Ala Glu Lys Met Val Pro Val Leu His Asp Ala Leu Thr Arg His His
 195 200 205
 Ile Arg Leu Thr Asp Glu Gly Glu Leu Phe Leu Arg Leu Tyr Cys Ala
 210 215 220
 Val Ser Val Arg Arg Ile Ser Glu Gly Tyr Pro Leu Pro Glu Phe His
 225 230 235 240
 Ala Glu Asp Val Glu Glu Asn Val His Glu Ala Ala Lys Asp Ile Ala
 245 250 255
 Val Ala Ile Gln Glu Leu Ala Gly Lys Ala Leu Ser Pro Ser Glu Glu
 260 265 270
 Ser Trp Leu Cys Val His Ile Ala Ala Arg Gln Ile Gln Glu Ile Ala
 275 280 285
 Pro Ser Ala Ile Asn Ala Asp Asp Asp Glu Ala Leu Val Asn Tyr Ile
 290 295 300
 Leu Arg Tyr Ile Asn Thr His Tyr Asn Tyr Asn Leu Leu Ser Asp Glu
 305 310 315 320
 Gln Leu His Ala Asp Leu Leu Thr His Ile Lys Thr Met Ile Thr Arg
 325 330 335
 Val Arg Tyr Gln Ile Met Ile Pro Asn Pro Leu Leu Asp Asn Ile Lys
 340 345 350
 Gln His Tyr Pro Met Ala Trp Asp Met Thr Leu Ala Ala Val Ser Ser
 355 360 365
 Trp Gly Lys Tyr Thr Pro Tyr Val Ile Ser Glu Asn Glu Ile Gly Phe
 370 375 380

Leu Val Leu His Ile Gly Val Gly Leu Glu Arg His Tyr Asn Ile Gly
 385 390 395 400
 Tyr Gln Arg Gln Pro Arg Val Leu Leu Val Cys Asp Ala Gly Asn Ala
 405 410 415
 Met Val Arg Met Ile Glu Ala Val Leu Gln Arg Lys Tyr Pro Gln Ile
 420 425 430
 Glu Val Thr Arg Thr Leu Thr Leu Arg Glu Tyr Glu Leu Ala Asp Ala
 435 440 445
 Ile Gly Glu Asp Phe Val Ile Ser Thr Ala Arg Val Ser Glu Lys Ser
 450 455 460
 Lys Pro Val Val Met Ile Ala Pro Phe Pro Thr Asp Tyr Gln Leu Glu
 465 470 475 480
 Gln Ile Gly Lys Leu Val Leu Val Asp Arg Thr Arg Pro Trp Met Leu
 485 490 495
 Glu Lys Tyr Phe Asp Ala Ala His Phe Arg Ile Ile Asp Lys Pro Val
 500 505 510
 Asp Gln Gln Thr Leu Phe Arg Glu Leu Cys Glu Gln Leu Glu Ala Glu
 515 520 525
 Gly Phe Val Gly Ala Glu Phe Leu Asp Ser Val Ile Glu Arg Glu Ala
 530 535 540
 Ile Val Ser Thr Met Leu Gly Asp Gly Ile Ala Leu Pro His Ser Leu
 545 550 555 560
 Gly Leu Leu Ala Gln Lys Thr Val Val Tyr Thr Val Leu Ala Pro Gln
 565 570 575
 Gly Ile Gln Trp Gly Asp Glu Thr Ala His Val Ile Phe Leu Leu Ala
 580 585 590
 Ile Ser Lys Ser Glu Tyr Glu Glu Ala Met Ala Ile Tyr Asp Ile Phe
 595 600 605
 Val Thr Phe Leu Arg Glu Arg Ala Met Ala Arg Leu Cys Gln Cys Glu
 610 615 620
 Asn Phe Ala Ala Phe Lys Ala Val Ala Met Glu Ser Leu Ser Arg Phe
 625 630 635 640

<210> 8947
 <211> 118
 <212> PRT
 <213> Enterobacter cloacae

<400> 8947
 Val Leu Ala Met Arg Ile Phe Val Tyr Gly Ser Leu Arg Thr Arg Gln
 1 5 10 15
 Gly Asn Ser His Trp Met Thr Asn Ala Gln Leu Leu Gly Asn Tyr Thr
 20 25 30
 Ile Glu Asn Tyr Gln Leu Tyr Ser Leu Gly His Tyr Pro Gly Ala Val
 35 40 45
 Pro Gly Asn Gly Thr Val Gln Gly Glu Val Tyr Arg Ile Asp Asn Ala
 50 55 60
 Thr Leu Ala Glu Leu Asp Ala Leu Arg Thr Arg Gly Gly Glu Tyr Ala
 65 70 75 80
 Arg Gln Leu Ile Gln Thr Pro Tyr Gly Ser Ala Trp Met Tyr Val Tyr
 85 90 95
 Gln Arg Ser Val Asp Gly Leu Thr Leu Ile Glu Ser Gly Asn Trp Leu
 100 105 110
 Asp Arg Asp Gln Phe
 115

<210> 8948
 <211> 368
 <212> PRT

<213> Enterobacter cloacae

<400> 8948

Asn Glu Ser Asp Tyr Lys Leu Val Ile Asn Val Leu Phe Thr Phe Leu
 1 5 10 15
 Lys Cys Asp Val Thr Gln Ser Val Thr Tyr Ser Ile Gly Tyr Ser Ser
 20 25 30
 Ser Ala Glu His Leu Leu Thr Asn Asn Asn Leu Pro Tyr Glu Asp Val
 35 40 45
 His Met Trp Lys Arg Leu Leu Leu Val Thr Ala Val Ser Ala Ala Met
 50 55 60
 Ser Ser Met Ala Met Ala Pro Leu Thr Val Gly Phe Ser Gln Val
 65 70 75 80
 Gly Ser Glu Ser Gly Trp Arg Ala Ala Glu Thr Asn Val Ala Lys Ser
 85 90 95
 Glu Ala Glu Lys Arg Gly Ile Thr Leu Lys Ile Ala Asp Gly Gln Gln
 100 105 110
 Lys Gln Glu Asn Gln Ile Lys Ala Val Arg Ser Phe Ile Ala Gln Gly
 115 120 125
 Val Asp Ala Ile Phe Ile Ala Pro Val Val Ala Thr Gly Trp Glu Pro
 130 135 140
 Val Leu Lys Glu Ala Lys Asp Ala Glu Ile Pro Val Phe Leu Leu Asp
 145 150 155 160
 Arg Ser Ile Asp Val Lys Asp Lys Ser Leu Tyr Met Thr Thr Val Thr
 165 170 175
 Ala Asp Asn Val Leu Glu Gly Lys Leu Ile Gly Asp Trp Leu Val Lys
 180 185 190
 Gln Val Asp Gly Lys Pro Cys Asn Val Val Glu Leu Gln Gly Thr Val
 195 200 205
 Gly Ala Ser Val Ala Ile Asp Arg Lys Lys Gly Phe Ala Glu Ala Ile
 210 215 220
 Ala Lys Ala Pro Asn Ile Lys Ile Ile Arg Ser Gln Ser Gly Asp Phe
 225 230 235 240
 Thr Arg Ser Lys Gly Lys Glu Val Met Glu Ser Phe Ile Lys Ala Glu
 245 250 255
 Asn Asn Gly Lys Asn Ile Cys Met Val Tyr Ala His Asn Asp Asp Met
 260 265 270
 Val Ile Gly Ala Ile Gln Ala Ile Lys Glu Ala Gly Leu Lys Pro Gly
 275 280 285
 Lys Asp Ile Leu Thr Gly Ser Ile Asp Gly Val Pro Asp Ile Tyr Lys
 290 295 300
 Ala Met Ile Asp Gly Glu Ala Asn Ala Ser Val Glu Leu Thr Pro Asn
 305 310 315 320
 Met Ala Gly Pro Ala Phe Asp Ala Leu Glu Lys Phe Lys Lys Asp Gly
 325 330 335
 Thr Gln Pro Glu Lys Leu Thr Ile Thr Lys Ser Thr Leu Tyr Leu Pro
 340 345 350
 Asp Thr Ala Lys Glu Glu Leu Glu Lys Lys Lys Asn Met Gly Tyr
 355 360 365

<210> 8949

<211> 538

<212> PRT

<213> Enterobacter cloacae

<400> 8949

Pro Ser Ser Arg Arg Gly Glu Gly Lys Gly Arg Val Gly Gln Lys Ile
 1 5 10 15
 Lys Asp Gly His Asp Ile Val Pro Ser Pro Leu Arg Gly Glu Gly Gln
 20 25 30
 Gly Glu Gly Glu Thr Met Thr Thr Glu Gln His Gln Glu Ile Leu Arg

		35					40					45				
Thr	Glu	Gly	Leu	Ser	Lys	Phe	Phe	Pro	Gly	Val	Lys	Ala	Leu	Asp	Asn	
	50					55					60					
Val	Asp	Phe	Ser	Leu	Arg	Arg	Gly	Glu	Ile	Met	Ala	Leu	Leu	Gly	Glu	
65					70					75					80	
Asn	Gly	Ala	Gly	Lys	Ser	Thr	Leu	Ile	Lys	Thr	Leu	Thr	Gly	Val	Tyr	
				85					90					95		
His	Ala	Asp	Arg	Gly	Ala	Ile	Trp	Leu	Glu	Gly	Asn	Ala	Ile	Ser	Pro	
			100					105					110			
Lys	Asn	Thr	Ala	His	Ala	Gln	Gln	Leu	Gly	Ile	Gly	Thr	Val	Tyr	Gln	
		115					120					125				
Glu	Val	Asn	Leu	Leu	Pro	Asn	Met	Ser	Val	Ala	Asp	Asn	Leu	Phe	Ile	
	130					135					140					
Gly	Arg	Glu	Pro	Arg	Arg	Phe	Gly	Leu	Leu	Arg	Arg	Lys	Glu	Met	Glu	
145					150					155					160	
Ala	Arg	Ala	Ala	Lys	Leu	Met	Glu	Ser	Tyr	Gly	Phe	Ser	Leu	Asp	Val	
				165					170					175		
Arg	Glu	Pro	Leu	Asn	Arg	Phe	Ser	Val	Ala	Met	Gln	Gln	Ile	Val	Ala	
			180					185					190			
Ile	Cys	Arg	Ala	Ile	Asp	Leu	Ser	Ala	Lys	Val	Leu	Ile	Leu	Asp	Glu	
	195						200					205				
Pro	Thr	Ala	Ser	Leu	Asp	Thr	Gln	Glu	Val	Glu	Met	Leu	Phe	Thr	Leu	
	210					215					220					
Met	Arg	Gln	Leu	Arg	Asn	Gln	Gly	Val	Ser	Leu	Ile	Phe	Val	Thr	His	
225					230					235					240	
Phe	Leu	Asp	Gln	Val	Tyr	Glu	Val	Ser	Asp	Arg	Ile	Thr	Val	Leu	Arg	
				245					250					255		
Asn	Gly	Ser	Phe	Val	Gly	Cys	Arg	Glu	Thr	Arg	Glu	Leu	Pro	Gln	Ile	
			260					265					270			
Glu	Leu	Val	Lys	Met	Met	Leu	Gly	Arg	Glu	Leu	Glu	Thr	Asn	Ala	Leu	
		275					280					285				
Gln	Arg	Ala	Gly	Arg	Thr	Leu	Leu	Ser	Glu	Lys	Pro	Ile	Ala	Ala	Phe	
	290					295					300					
His	Asp	Tyr	Gly	Arg	Lys	Gly	Thr	Ile	Ala	Pro	Phe	Asn	Leu	Glu	Val	
305					310					315					320	
Arg	Pro	Gly	Glu	Ile	Val	Gly	Leu	Ala	Gly	Leu	Leu	Gly	Ser	Gly	Arg	
				325					330					335		
Thr	Glu	Thr	Ala	Glu	Val	Ile	Phe	Gly	Ile	Lys	Pro	Ala	Asp	Ser	Gly	
			340					345					350			
Thr	Ala	Leu	Ile	Lys	Gly	Lys	Leu	Gln	Thr	Leu	Arg	Ser	Pro	His	Gln	
		355					360					365				
Ala	Ser	Cys	Leu	Gly	Val	Gly	Phe	Cys	Pro	Glu	Asp	Arg	Lys	Thr	Asp	
	370					375					380					
Gly	Ile	Ile	Ala	Ala	Ala	Ser	Val	Arg	Glu	Asn	Ile	Ile	Leu	Ala	Leu	
385					390					395						

Pro Ala Ile Met Asn Ala Ile Ala Ala
530 535

<210> 8950

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 8950

Lys	Lys	Arg	Leu	Met	Leu	Pro	Val	Lys	Thr	Arg	Thr	Glu	Lys	Arg	Phe
1			5					10					15		
Ser	Val	Arg	Leu	His	Leu	Thr	Leu	Ser	Tyr	Ser	Met	Ala	Phe	Ala	Met
			20					25					30		
Lys	Val	Thr	Ser	Gln	Val	Glu	Ala	Gln	Arg	Lys	Ile	Leu	Glu	Glu	Ala
		35					40					45			
Val	Ser	Thr	Ala	Leu	Thr	Leu	Ala	Ser	Gly	Lys	Ser	Asp	Gly	Ala	Glu
	50					55					60				
Val	Ala	Val	Ser	Lys	Thr	Thr	Gly	Ile	Ser	Val	Ser	Thr	Arg	Tyr	Gly
65					70					75					80
Glu	Val	Glu	Asn	Val	Glu	Phe	Asn	Ser	Asp	Gly	Ala	Leu	Gly	Ile	Thr
			85					90						95	
Val	Tyr	His	Gln	Asn	Arg	Lys	Gly	Ser	Ala	Ser	Ser	Thr	Asp	Leu	Ser
		100						105					110		
Pro	Asp	Ala	Ile	Ala	Arg	Thr	Val	Gln	Ala	Ala	Leu	Asp	Ile	Ala	Arg
	115						120					125			
Tyr	Thr	Ser	Pro	Asp	Pro	Tyr	Ala	Gly	Val	Ala	Asp	Lys	Glu	Leu	Leu
	130					135					140				
Ala	Phe	Asp	Ala	Pro	Asp	Leu	Asp	Leu	Phe	His	Pro	Ala	Glu	Val	Thr
145					150					155					160
Pro	Asp	Glu	Ala	Ile	Glu	Leu	Ala	Ala	Arg	Ala	Glu	Gln	Ala	Ser	Leu
			165					170						175	
Gln	Ala	Asp	Lys	Arg	Ile	Thr	Asn	Thr	Glu	Gly	Gly	Ser	Phe	Asn	Ser
		180					185						190		
His	Tyr	Gly	Ile	Lys	Val	Phe	Gly	Asn	Ser	His	Gly	Met	Leu	Gln	Gly
	195						200					205			
Tyr	Cys	Ser	Thr	Arg	His	Ser	Leu	Ser	Ser	Cys	Val	Ile	Ala	Glu	Glu
	210					215					220				
Asn	Gly	Asp	Met	Glu	Arg	Asp	Tyr	Ala	Tyr	Thr	Ile	Gly	Arg	Ala	Leu
225					230					235					240
Gly	Asp	Leu	Gln	Ser	Pro	Glu	Trp	Val	Gly	Lys	Ala	Cys	Ala	Glu	Arg
			245						250					255	
Thr	Leu	Ser	Arg	Leu	Ser	Pro	Arg	Lys	Leu	Ser	Thr	Met	Lys	Ala	Pro
		260						265					270		
Val	Ile	Phe	Ala	Asn	Glu	Val	Ala	Thr	Gly	Leu	Phe	Gly	His	Leu	Val
	275						280					285			
Gly	Ala	Ile	Ala	Gly	Gly	Ser	Val	Tyr	Arg	Lys	Ser	Thr	Phe	Leu	Leu
	290					295					300				
Asp	Ser	Leu	Gly	Lys	Gln	Ile	Leu	Pro	Glu	Trp	Leu	Thr	Ile	Glu	Glu
305					310					315					320
His	Pro	His	Leu	Leu	Lys	Gly	Leu	Ala	Ser	Thr	Pro	Phe	Asp	Ser	Glu
			325						330					335	
Gly	Val	Arg	Thr	Glu	Arg	Arg	Asp	Ile	Val	Lys	Asp	Gly	Ile	Leu	Thr
		340					345						350		
Gln	Trp	Leu	Leu	Thr	Asn	Tyr	Ser	Ala	Arg	Lys	Leu	Gly	Leu	Lys	Ser
	355						360					365			
Thr	Gly	His	Ala	Gly	Gly	Ile	His	Asn	Trp	Arg	Ile	Ala	Gly	Gln	Gly
	370					375					380				
Leu	Asn	Phe	Glu	Gln	Met	Leu	Lys	Glu	Met	Gly	Thr	Gly	Leu	Val	Val
385					390					395					400
Thr	Glu	Leu	Met	Gly	Gln	Gly	Val	Ser	Gly	Ile	Thr	Gly	Asp	Tyr	Ser
			405						410					415	

Arg Gly Ala Ala Gly Phe Trp Val Glu Asn Gly Glu Ile Gln Tyr Pro
 420 425 430
 Val Ser Glu Ile Thr Ile Ala Gly Asn Leu Lys Asp Met Trp Arg Asn
 435 440 445
 Ile Val Thr Val Gly Asn Asp Ile Glu Thr Arg Ser Asn Ile Gln Cys
 450 455 460
 Gly Ser Val Leu Leu Pro Glu Met Lys Ile Ala Gly Gln
 465 470 475

<210> 8951

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 8951

Ala Met Arg Lys His Leu Leu Ala Ile Val Ala Ala Ser Thr Leu Val
 1 5 10 15
 Leu Gly Ser Ser Ala Phe Ala Ala Asp Leu Glu Asp Asn Met Asp Ile
 20 25 30
 Leu Ser Gln Asn Leu Lys Val Val Lys Lys Thr Asp Asn Ala Ala Glu
 35 40 45
 Met Lys Asp Ala Leu Thr Lys Met Arg Glu Ala Ala Leu Asp Ala Gln
 50 55 60
 Lys Ala Thr Pro Pro Lys Leu Glu Ser Lys Ala Ala Asp Ser Ala Glu
 65 70 75 80
 Met Lys Asp Tyr Arg His Gly Phe Asp Val Leu Val Gly Gln Ile Asp
 85 90 95
 Gly Ala Leu Lys Leu Ala Asn Glu Gly Lys Val Lys Glu Ala Gln Ala
 100 105 110
 Ala Ala Asp Gln Phe Ala Ala Thr Arg Asn Ala Tyr His Lys Lys Tyr
 115 120 125
 Arg
 130

<210> 8952

<211> 380

<212> PRT

<213> Enterobacter cloacae

<400> 8952

Pro Asn Lys Gly Ala Arg Asn Met Pro Ser Ile Tyr Glu Lys Tyr Asn
 1 5 10 15
 Leu Lys Gln Val Ile Asn Thr Ser Gly Arg Met Thr Ala Leu Gly Val
 20 25 30
 Ser Thr Pro Arg Pro Glu Val Val Gln Ala Ala Met Asn Gly Met Asn
 35 40 45
 His Tyr Phe Glu Met Lys Glu Leu Val Asn Lys Thr Gly Glu Tyr Ile
 50 55 60
 Ala Lys Leu Leu Glu Val Glu Gly Ala Thr Val Val Ser Cys Ala Ser
 65 70 75 80
 Ala Gly Ile Ala Gln Ser Val Ala Ala Val Leu Val Lys Asp Ser Asp
 85 90 95
 Trp Leu Leu Glu Asn Leu His Val Thr Pro Ile Glu Asn Asn Glu Ile
 100 105 110
 Val Leu Pro Lys Gly His Asn Val Asn Phe Gly Ala Pro Val Gly Thr
 115 120 125
 Met Val Ala Leu Gly Gly Gly Lys Leu Val Glu Ala Gly Tyr Ala Asn
 130 135 140
 Glu Cys Ser Ala Asp Gln Leu Ala Ala Ala Ile Thr Pro Arg Thr Ala
 145 150 155 160
 Ala Ile Leu Tyr Ile Lys Ser His His Cys Val Gln Lys Ser Met Leu


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<210> 8953
<211> 263
<212> PRT
<213> Enterobacter cloacae
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Lys 1	Asp	Leu	Ile	Arg 5	Ser	Leu	Ser	Arg	Leu 10	Lys	Ser	Ala	Arg	Ser 15	Asn
Ala	Val	Ile	Ala	Phe	Phe	Phe	Thr	Phe	Asn	Arg	Pro	Asp	Met	Thr	Asn
			20					25					30		
Ser	Asn	Arg	Ile	Lys	Leu	Thr	Trp	Ile	Ser	Phe	Phe	Ser	Tyr	Ala	Leu
		35					40					45			
Thr	Gly	Ala	Leu	Val	Ile	Val	Thr	Gly	Met	Val	Met	Gly	Asn	Ile	Ala
		50					55					60			
Asp	Tyr	Phe	Gln	Leu	Pro	Val	Ser	Ser	Met	Ser	Asn	Thr	Phe	Thr	Phe
65					70					75					80
Leu	Asn	Ala	Gly	Ile	Leu	Ile	Ser	Ile	Phe	Leu	Asn	Ala	Trp	Leu	Met
				85					90					95	
Glu	Ile	Val	Pro	Leu	Lys	Thr	Gln	Leu	Arg	Phe	Gly	Phe	Val	Leu	Met
			100					105					110		
Val	Ala	Ala	Val	Ala	Gly	Leu	Met	Leu	Ser	His	Ser	Ile	Ala	Leu	Phe
		115					120					125			
Ser	Ala	Ala	Met	Phe	Val	Leu	Gly	Leu	Val	Ser	Gly	Ile	Thr	Met	Ser
		130				135					140				
Ile	Gly	Thr	Phe	Leu	Ile	Thr	His	Met	Tyr	Glu	Gly	Arg	Gln	Arg	Gly
145				150					155					160	
Ala	Arg	Leu	Leu	Phe	Thr	Asp	Ser	Phe	Phe	Ser	Met	Ala	Gly	Met	Ile
				165					170					175	
Phe	Pro	Met	Val	Ala	Ala	Tyr	Leu	Leu	Ala	Arg	Ser	Ile	Glu	Trp	Tyr
			180					185				190			
Trp	Val	Tyr	Ala	Cys	Ile	Gly	Leu	Val	Tyr	Val	Ala	Ile	Phe	Ile	Leu
		195					200					205			
Thr	Phe	Gly	Cys	Glu	Phe	Pro	Val	Leu	Gly	Lys	Lys	Ala	Gln	Thr	Thr

210		215		220
Ser Glu Pro Val Ala Lys	Glu Lys Trp Gly Ile	Gly Val Leu Phe Leu		
225	230	235		240
Ser Ile Ala Ala Leu Cys	Tyr Ile Leu Gly Gln	Leu Gly Phe Ile Ser		
	245	250	255	
Leu Gly Ser Arg Val Cys				
	260			

<210> 8954 •
 <211> 120
 <212> PRT
 <213> Enterobacter cloacae

<400> 8954

Thr Tyr Ser Gly Asp Ala Gly Gly Gly Lys Arg Met Ser Gln Trp Val	
1 5 10 15	
Asn Ile Cys Asn Ile Asn Asp Ile Leu Pro Ala Thr Gly Val Cys Ala	
20 25 30	
Leu Leu Gly Asn Glu Gln Val Ala Ile Phe Arg Pro Arg His Asp Glu	
35 40 45	
Gln Val Tyr Ala Ile Ser Asn Ile Asp Pro Phe Phe Glu Ala Ser Val	
50 55 60	
Leu Ser Arg Gly Leu Ile Ala Glu His Gln Gly Glu Leu Trp Val Ala	
65 70 75 80	
Ser Pro Leu Lys Lys Gln Arg Phe Arg Leu Thr Asp Gly Arg Cys Met	
85 90 95	
Glu Asp Glu Ser Phe Ser Val Lys His Tyr Asp Val Arg Val Lys Asp	
100 105 110	
Gly Glu Val Gln Leu Lys Gly	
115 120	

<210> 8955
 <211> 252
 <212> PRT
 <213> Enterobacter cloacae

<400> 8955

Ser Asp Asn Val Pro Ala Arg Gln Val Val Leu Pro Cys Arg Ala Arg	
1 5 10 15	
Phe Phe Trp Leu Glu Phe Pro Leu Met His Leu Asp Ile Asp Trp Gln	
20 25 30	
Ala Val Asp Thr Val Leu Leu Asp Met Asp Gly Thr Leu Leu Asp Leu	
35 40 45	
Ala Phe Asp Asn Tyr Phe Trp Gln Lys Leu Val Pro Glu Thr Tyr Gly	
50 55 60	
Glu Gln Gln Gly Ile Ser Pro Ala Glu Ala Gln Glu Phe Ile Arg Ser	
65 70 75 80	
Gln Tyr Ser Ala Val Gln His Thr Leu Asn Trp Tyr Cys Leu Asp Tyr	
85 90 95	
Trp Ser Glu Arg Leu Gly Leu Asp Ile Cys Ala Met Thr Thr Ala Gln	
100 105 110	
Gly Ala Arg Ala Val Leu Arg Glu Asp Thr Val Pro Phe Leu Asp Ala	
115 120 125	
Leu Lys Ala Cys Gly Lys Arg Arg Ile Leu Leu Thr Asn Ala His Pro	
130 135 140	
His Asn Leu Ala Val Lys Leu Glu His Thr Gly Leu Ala Ser His Leu	
145 150 155 160	
Asp Leu Leu Leu Ser Thr His Thr Phe Gly Tyr Pro Lys Glu Asp Gln	
165 170 175	
Arg Leu Trp His Ala Val Val Glu Glu Thr Gly Leu Gln Pro Glu Arg	
180 185 190	

Thr	Leu	Phe	Ile	Asp	Asp	Ser	Glu	Pro	Ile	Leu	Asp	Ser	Ala	Ala	Ala	
		195					200					205				
Phe	Gly	Ile	Arg	Tyr	Cys	Leu	Gly	Val	Thr	Asn	Pro	Asp	Ser	Gly	Leu	
	210					215					220					
Ala	Glu	Lys	Ser	Tyr	Leu	Arg	His	Pro	Gly	Leu	Asn	Asp	Tyr	Arg	Arg	
	225				230					235					240	
Met	Ile	Pro	Ser	Leu	Thr	Val	Lys	Glu	Thr	Pro						
				245					250							

<210> 8956

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 8956

Pro	Leu	Val	Glu	Ser	Gly	Ala	Met	Gln	Phe	Thr	Pro	Asp	Ser	Ala	Trp	
1				5					10					15		
Lys	Ile	Ile	Gly	Phe	Thr	Arg	Glu	Ile	Ser	Pro	Ala	Tyr	Arg	Gln	Lys	
			20					25					30			
Leu	Leu	Ser	Leu	Gly	Met	Leu	Pro	Gly	Ser	Ser	Phe	Gln	Val	Val	Arg	
		35				40					45					
Val	Ala	Pro	Leu	Gly	Asp	Pro	Val	His	Ile	Glu	Thr	Arg	Arg	Val	Asn	
	50					55				60						
Leu	Val	Leu	Arg	Lys	Lys	Asp	Leu	Ala	Leu	Ile	Glu	Val	Glu	Ser	Leu	
	65				70					75					80	
Ser	Arg															

<210> 8957

<211> 783

<212> PRT

<213> Enterobacter cloacae

<400> 8957

Gln	Ala	Ser	Gly	Phe	Ser	Glu	Ser	Ile	Thr	Met	Lys	Lys	Leu	Thr	Ile	
1				5					10					15		
Gly	Leu	Ile	Gly	Asn	Pro	Asn	Ser	Gly	Lys	Thr	Thr	Leu	Phe	Asn	Gln	
			20					25					30			
Leu	Thr	Gly	Ala	Arg	Gln	Arg	Val	Gly	Asn	Trp	Ala	Gly	Val	Thr	Val	
		35				40					45					
Glu	Arg	Lys	Glu	Gly	Gln	Phe	Thr	Thr	Thr	Asp	Asn	Gln	Val	Thr	Leu	
	50				55					60						
Val	Asp	Leu	Pro	Gly	Thr	Tyr	Ser	Leu	Thr	Thr	Ile	Ser	Ser	Gln	Thr	
	65				70				75					80		
Ser	Leu	Asp	Glu	Gln	Ile	Ala	Cys	His	Tyr	Ile	Leu	Ser	Gly	Asp	Ala	
			85					90					95			
Asp	Leu	Leu	Ile	Asn	Val	Val	Asp	Ala	Ser	Asn	Leu	Glu	Arg	Asn	Leu	
		100						105					110			
Tyr	Leu	Thr	Leu	Gln	Leu	Leu	Glu	Leu	Gly	Ile	Pro	Cys	Ile	Val	Ala	
		115					120					125				
Leu	Asn	Met	Leu	Asp	Ile	Ala	Glu	Lys	Gln	Lys	Leu	Arg	Ile	Asp	Val	
	130					135					140					
Asp	Ala	Leu	Ser	Ala	Arg	Leu	Gly	Cys	Pro	Val	Val	Pro	Leu	Val	Ser	
	145				150					155					160	
Thr	Arg	Ala	Arg	Gly	Ile	Asp	Ala	Leu	Lys	Leu	Ala	Ile	Asp	Arg	His	
				165				170						175		
Thr	Gly	Asn	Ala	Asp	Val	Glu	Leu	Val	His	Tyr	Ala	Gln	Pro	Leu	Leu	
		180					185						190			
Arg	Glu	Ala	Gly	Gln	Leu	Ala	Gln	Glu	Met	Asp	Asn	Ser	Met	Pro	Ala	
	195						200					205				
Arg	Gln	Arg	Leu	Trp	Leu	Gly	Leu	Gln	Met	Leu	Glu	Gly	Asp	Ile	Tyr	

210	215	220
Ser Arg Ala Tyr Ala Gly	Asp Ala Ala Asp Lys	Leu Gly Val Ala Gln
225	230	235
Ala Arg Leu Ser Asp	Glu Leu Asp Asp Pro	Ala Leu His Ile Ala Asp
	245	250
Ala Arg Tyr Gln Ala Ile	Ala Ala Ile Cys Asp	Val Val Ser Asn Ala
	260	265
Leu Thr Ala Glu Pro Ser	Arg Phe Thr Ala Ala	Val Asp Lys Ile Val
	275	280
Leu Asn Arg Phe Leu Gly	Leu Pro Ile Phe Leu	Leu Val Met Tyr Val
	290	295
Met Phe Leu Leu Ala Ile	Asn Ile Gly Gly Ala	Leu Gln Pro Ile Phe
305	310	315
Asp Gly Gly Ser Val Ala	Ile Phe Val His Gly	Ile Gln Trp Leu Gly
	325	330
Tyr Thr Leu His Phe Pro	Glu Trp Leu Thr Ile	Phe Leu Ala Gln Gly
	340	345
Ile Gly Gly Gly Ile Asn	Thr Val Leu Pro Leu	Val Pro Gln Ile Gly
	355	360
Met Met Tyr Leu Phe Leu	Ser Phe Leu Glu Asp	Ser Gly Tyr Met Ala
	370	375
Arg Ala Ala Phe Val Met	Asp Arg Leu Met Gln	Ala Leu Gly Leu Pro
385	390	395
Gly Lys Ser Phe Val Pro	Leu Ile Val Gly Phe	Gly Cys Asn Val Pro
	405	410
Ser Val Met Gly Ala Arg	Thr Leu Asp Ala Pro	Arg Glu Arg Leu Met
	420	425
Thr Ile Met Met Ala Pro	Phe Met Ser Cys Gly	Ala Arg Leu Ala Ile
	435	440
Phe Ala Val Phe Ala Ala	Ala Phe Phe Gly Gln	Glu Gly Ala Leu Ala
	450	455
Val Phe Ser Leu Tyr Val	Leu Gly Ile Val Met	Ala Ile Leu Thr Gly
465	470	475
Leu Met Leu Lys His Thr	Ile Met Arg Gly Glu	Ala Ser Pro Phe Val
	485	490
Met Glu Leu Pro Val Tyr	His Val Pro His Leu	Lys Ser Leu Ile Ile
	500	505
Gln Thr Trp Gln Arg Leu	Lys Gly Phe Val Leu	Arg Ala Gly Lys Val
	515	520
Ile Val Val Val Ser Ile	Phe Leu Ser Ala Leu	Asn Ser Phe Thr Leu
	530	535
Ser Gly Gln Ala Ala Asp	Asn Ile Asn Asp Ser	Ala Leu Ala Ser Val
545	550	555
Ser Arg Ile Ile Thr Pro	Val Phe Lys Pro Ile	Gly Val Gln Glu Asp
	565	570
Asn Trp Gln Ala Thr Val	Gly Leu Phe Thr Gly	Ala Met Ala Lys Glu
	580	585
Val Val Val Gly Thr Leu	Asn Thr Leu Tyr Thr	Ala Glu Asn Ile Gln
	595	600
Glu Glu Glu Phe Asn Pro	Ala Ala Phe Asn Leu	Gly Asp Glu Leu Leu
	610	615
Gly Ala Val Glu Glu Thr	Trp Gln Ser Leu Lys	Asp Thr Phe Ser Leu
625	630	635
Ser Val Leu Ala Asn Pro	Ile Glu Ala Ser Lys	Gly Asp Gly Glu Met
	645	650
Ala Thr Gly Ala Met Gly	Val Met Gly Gln Lys	Phe Gly Ser Ala Ser
	660	665
Ala Ala Tyr Ser Tyr Leu	Ile Phe Val Leu Leu	Tyr Ile Pro Cys Ile
	675	680
Ser Val Met Gly Ala Ile	Ala Arg Glu Ser Ser	Arg Gly Trp Met Gly
690	695	700

Phe	Ser	Ile	Leu	Trp	Gly	Leu	Asn	Ile	Ala	Tyr	Ser	Leu	Ala	Thr	Val
705					710					715					720
Phe	Tyr	Gln	Ala	Val	Asn	Tyr	Ser	Gln	His	Pro	Arg	Tyr	Ser	Leu	Val
				725					730						735
Cys	Ile	Leu	Ala	Val	Ile	Leu	Phe	Asn	Val	Met	Val	Ile	Gly	Leu	Leu
			740					745					750		
Arg	Arg	Ala	Arg	Ser	Arg	Val	Asp	Ile	Asn	Leu	Leu	Ala	Thr	Arg	Lys
		755					760					765			
Thr	Pro	Thr	Thr	Cys	Cys	Asn	Ser	Pro	Ala	Gly	Asp	Cys	His		
	770					775					780				

<210> 8958

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 8958

Ala	Lys	Ala	Met	Ile	Arg	Ile	Ser	Asp	Ser	Ala	Gln	Ala	His	Phe	Ala
1				5					10					15	
Lys	Leu	Leu	Ala	Asn	Gln	Glu	Glu	Gly	Thr	Gln	Ile	Arg	Val	Phe	Val
			20					25					30		
Ile	Asn	Pro	Gly	Thr	Pro	Asn	Ala	Glu	Cys	Gly	Val	Ser	Tyr	Cys	Pro
	35						40					45			
Pro	Asp	Ala	Val	Glu	Ala	Thr	Asp	Thr	Ala	Leu	Lys	Phe	Glu	Gln	Leu
	50					55					60				
Thr	Ala	Tyr	Val	Asp	Glu	Leu	Ser	Ala	Pro	Tyr	Leu	Glu	Asp	Ala	Glu
65				70						75					80
Ile	Asp	Phe	Val	Thr	Asp	Gln	Leu	Gly	Ser	Gln	Leu	Thr	Leu	Lys	Ala
				85				90						95	
Pro	Asn	Ala	Lys	Met	Arg	Lys	Val	Ser	Asp	Asp	Ala	Pro	Leu	Met	Glu
		100						105					110		
Arg	Val	Glu	Tyr	Leu	Leu	Gln	Ser	Gln	Ile	Asn	Pro	Gln	Leu	Ala	Gly
		115					120					125			
His	Gly	Gly	Arg	Val	Ser	Leu	Met	Glu	Ile	Thr	Glu	Asp	Gly	Leu	Ala
	130					135					140				
Ile	Leu	Gln	Phe	Gly	Gly	Gly	Cys	Asn	Gly	Cys	Ser	Met	Val	Asp	Val
145				150						155					160
Thr	Leu	Lys	Glu	Gly	Ile	Glu	Lys	Gln	Leu	Leu	Asn	Glu	Phe	Pro	Glu
			165						170					175	
Leu	Lys	Gly	Val	Arg	Asp	Leu	Thr	Glu	His	Gln	Arg	Gly	Glu	His	Ser
		180						185					190		
Tyr	Tyr														
															195

<210> 8959

<211> 249

<212> PRT

<213> Enterobacter cloacae

<400> 8959

Phe	Ser	Arg	Trp	Ser	Pro	Arg	Ile	Phe	Trp	Arg	Ala	Ala	Leu	Ser	Gly
1				5					10					15	
Thr	Gly	Tyr	Met	Pro	Ala	Leu	Val	Trp	Ser	Met	Ser	Arg	Ser	Leu	Phe
			20					25					30		
Ser	Pro	Ser	Ala	Ala	Ser	Ser	Arg	Cys	Trp	Ala	Lys	Lys	Arg	Arg	Leu
	35						40					45			
His	Pro	Ser	Arg	Leu	Arg	Lys	Lys	Asn	Gly	Val	Ser	Ala	Tyr	Cys	Ser
	50					55				60					
Ser	Pro	Ser	Pro	Arg	Cys	Val	Thr	Ser	Ser	Ala	Ser	Trp	Ala	Leu	Ser
65				70						75					80
Pro	Trp	Val	Pro	Glu	Tyr	Ala	Lys	Gly	Leu	Gly	Met	Ser	Leu	Asn	Asp

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<210> 8960
<211> 823
<212> PRT
<213> Enterobacter cloacae
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<400> 8960																
Ala	Asp	Ala	Glu	Gln	Phe	Asp	Ile	Thr	Val	Phe	Cys	Glu	Glu	Pro	Arg	
1				5					10					15		
Lys	Ala	Tyr	Asp	Arg	Val	His	Leu	Ser	Ser	Tyr	Phe	Ser	His	His	Thr	
			20					25					30			
Ala	Glu	Glu	Leu	Ser	Leu	Val	Arg	Glu	Gly	Phe	Tyr	Glu	Lys	His	Gly	
		35					40					45				
Val	Lys	Val	Leu	Val	Gly	Glu	Arg	Ala	Ile	Thr	Ile	Asn	Arg	Gln	Glu	
	50					55					60					
Lys	Val	Ile	His	Ser	Ser	Ala	Gly	Arg	Thr	Val	Phe	Tyr	Asp	Lys	Leu	
65				70						75					80	
Ile	Met	Ala	Thr	Gly	Ser	Tyr	Pro	Trp	Ile	Pro	Pro	Ile	Lys	Gly	Ser	
				85					90					95		
Glu	Thr	Gln	Asp	Cys	Phe	Val	Tyr	Arg	Thr	Ile	Glu	Asp	Leu	Asn	Ala	
			100					105					110			
Ile	Glu	Ser	Cys	Ala	Arg	Arg	Ser	Lys	Arg	Gly	Ala	Val	Val	Gly	Gly	
		115					120					125				
Gly	Leu	Leu	Gly	Leu	Glu	Ala	Ala	Gly	Ala	Leu	Lys	Asn	Leu	Gly	Val	
	130					135					140					
Glu	Thr	His	Val	Ile	Glu	Phe	Ala	Pro	Met	Leu	Met	Ala	Glu	Gln	Leu	
145				150					155					160		
Asp	His	Met	Gly	Gly	Asp	Gln	Leu	Arg	Arg	Lys	Ile	Glu	Ser	Met	Gly	
			165					170						175		
Val	Lys	Val	His	Thr	Ser	Lys	Asn	Thr	Lys	Glu	Ile	Val	Gln	Glu	Gly	
			180					185					190			
Thr	Glu	Ala	Arg	Lys	Thr	Met	Arg	Phe	Ala	Asp	Gly	Ser	Glu	Leu	Glu	
		195					200					205				
Val	Asp	Phe	Ile	Val	Phe	Ser	Thr	Gly	Ile	Arg	Pro	Arg	Asp	Lys	Leu	
	210					215					220					
Ala	Thr	Gln	Cys	Gly	Leu	Ala	Val	Ala	Gln	Arg	Gly	Gly	Ile	Met	Ile	
225				230						235				240		
Asn	Asp	Thr	Cys	Gln	Thr	Ser	Asp	Pro	Asp	Ile	Tyr	Ala	Ile	Gly	Glu	
			245						250					255		
Cys	Ala	Ser	Trp	Asn	Asn	Arg	Val	Phe	Gly	Leu	Val	Ala	Pro	Gly	Tyr	

			260				265			270					
Lys	Met	Ala	Gln	Val	Ala	Val	Asp	His	Ile	Leu	Gly	Ser	Glu	Asn	Ala
		275					280					285			
Phe	Thr	Gly	Ala	Asp	Met	Ser	Ala	Lys	Leu	Lys	Leu	Leu	Gly	Val	Asp
	290					295					300				
Val	Gly	Gly	Ile	Gly	Asp	Ala	His	Gly	Arg	Thr	Pro	Asn	Ser	Arg	Ser
305					310					315					320
Tyr	Val	Tyr	Leu	Asp	Glu	Ser	Lys	Glu	Val	Tyr	Lys	Arg	Leu	Ile	Val
				325					330					335	
Ser	Gln	Asp	Asn	Lys	Thr	Leu	Leu	Gly	Ala	Val	Leu	Val	Gly	Asp	Thr
		340						345					350		
Ser	Asp	Phe	Gly	Asn	Leu	Leu	Gln	Leu	Val	Leu	Asn	Ala	Ile	Glu	Leu
		355					360					365			
Pro	Glu	Asn	Pro	Asp	Ala	Leu	Ile	Leu	Pro	Ala	His	Ala	Ser	Ser	Gly
	370					375					380				
Lys	Pro	Ser	Ile	Gly	Val	Asp	Lys	Leu	Pro	Asp	Ser	Ala	Gln	Ile	Cys
385					390					395					400
Ser	Cys	Phe	Asp	Val	Thr	Lys	Gly	Met	Leu	Ile	Ser	Ala	Ile	Asn	Lys
			405					410						415	
Gly	Cys	His	Thr	Val	Ala	Ala	Leu	Lys	Ala	Glu	Thr	Lys	Ala	Gly	Thr
			420					425					430		
Gly	Cys	Gly	Gly	Cys	Ile	Pro	Leu	Val	Thr	Gln	Val	Leu	Asn	Ala	Glu
	435						440					445			
Leu	Ala	Lys	Gln	Gly	Ile	Glu	Val	Asn	Asn	Asn	Leu	Cys	Glu	His	Phe
	450					455					460				
Ala	Tyr	Ser	Arg	Gln	Glu	Leu	Tyr	His	Leu	Ile	Arg	Val	Glu	Gly	Ile
465					470					475					480
Lys	Ser	Phe	Asp	Glu	Leu	Leu	Glu	Lys	His	Gly	Gln	Gly	Tyr	Gly	Cys
			485					490						495	
Glu	Val	Cys	Lys	Pro	Thr	Val	Gly	Ser	Leu	Leu	Ala	Ser	Cys	Trp	Asn
		500						505					510		
Glu	Tyr	Val	Leu	Lys	Pro	Glu	His	Thr	Pro	Leu	Gln	Asp	Thr	Asn	Asp
	515					520						525			
Asn	Phe	Leu	Ala	Asn	Ile	Gln	Lys	Asp	Gly	Thr	Tyr	Ser	Val	Ile	Pro
	530					535					540				
Arg	Ser	Ala	Gly	Gly	Glu	Ile	Thr	Pro	Glu	Gly	Leu	Val	Ala	Val	Gly
545					550					555					560
Arg	Ile	Ala	Arg	Glu	Phe	Asn	Leu	Tyr	Thr	Lys	Ile	Thr	Gly	Ser	Gln
			565					570						575	
Arg	Ile	Gly	Leu	Phe	Gly	Ala	Gln	Lys	Asp	Asp	Leu	Pro	Glu	Ile	Trp
		580					585						590		
Arg	Gln	Leu	Ile	Glu	Ala	Gly	Phe	Glu	Thr	Gly	His	Ala	Tyr	Ala	Lys
	595					600						605			
Ala	Leu	Arg	Met	Ala	Lys	Thr	Cys	Val	Gly	Ser	Thr	Trp	Cys	Arg	Tyr
	610					615					620				
Gly	Val	Gly	Asp	Ser	Val	Gly	Phe	Gly	Val	Glu	Leu	Glu	Asn	Arg	Tyr
625					630					635					640
Lys	Gly	Ile	Arg	Thr	Pro	His	Lys	Met	Lys	Phe	Gly	Val	Ser	Gly	Cys
			645					650						655	
Thr	Arg	Glu	Cys	Ala	Glu	Ala	Gln	Gly	Lys	Asp	Val	Gly	Ile	Ile	Ala
		660					665						670		
Thr	Glu	Lys	Gly	Trp	Asn	Leu	Tyr	Val	Cys	Gly	Asn	Gly	Gly	Met	Lys
	675					680						685			
Pro	Arg	His	Ala	Asp	Leu	Leu	Ala	Ala	Asp	Leu	Asp	Arg	Asp	Thr	Leu
	690					695					700				
Ile	Lys	Tyr	Leu	Asp	Arg	Phe	Met	Met	Phe	Tyr	Ile	Arg	Thr	Ala	Asp
705					710					715					720
Lys	Leu	Thr	Arg	Thr	Ala	Ser	Trp	Leu	Asp	Asn	Leu	Glu	Gly	Gly	Ile
			725					730						735	
Asp	Tyr	Leu	Lys	Ser	Val	Ile	Ile	Asp	Asp	Lys	Leu	Gly	Leu	Asn	Glu
			740					745					750		

Gln Leu Glu Ser Glu Met Thr Arg Leu Arg Glu Ala Val Ile Cys Glu
 755 760 765
 Trp Thr Glu Thr Val Asn Thr Pro Ala Ala Gln Thr Arg Phe Lys His
 770 775 780
 Phe Ile Asn Ser Thr Gln Arg Asp Pro Asn Val Gln Val Val Pro Glu
 785 790 795 800
 Arg Glu Gln His Arg Pro Ala Thr Pro Tyr Glu Arg Ile Pro Val Met
 805 810 815
 Leu Val Glu Glu Asn Ala
 820

<210> 8961

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 8961

Gln Gly Met His Met Phe Lys Leu Ala Lys Ala Ala Val Leu Val Gly
 1 5 10 15
 Leu Leu Thr Thr Leu Thr Ala Cys Thr Gly His Val Gln Asn Thr Lys
 20 25 30
 Asn Asn Cys Ser Tyr Asp Tyr Leu Leu His Pro Ala Ile Ser Ile Ser
 35 40 45
 Lys Ile Ile Gly Gly Cys Gly Pro Ala Ala Gln Gln
 50 55 60

<210> 8962

<211> 875

<212> PRT

<213> Enterobacter cloacae

<400> 8962

Ile Arg Leu Ala Phe Ile Leu Pro Arg Asp Cys Leu Glu Thr Ala Gln
 1 5 10 15
 Ala Lys Pro Asn Gly Lys Ser Pro Val Lys Phe Val Lys Tyr Leu Leu
 20 25 30
 Ile Leu Ala Val Cys Cys Ile Leu Leu Gly Ala Gly Ser Ile Ile Gly
 35 40 45
 Leu Tyr Lys Tyr Val Glu Pro Gln Leu Pro Asp Val Ala Thr Leu Arg
 50 55 60
 Asp Val Arg Leu Gln Ile Pro Met Gln Val Tyr Ser Ala Asp Gly Glu
 65 70 75 80
 Leu Met Ala Gln Tyr Gly Glu Lys Arg Arg Ile Pro Leu Thr Leu Asn
 85 90 95
 Gln Ile Pro Pro Val Met Val Lys Ala Phe Ile Ala Thr Glu Asp Ser
 100 105 110
 Arg Phe Tyr Glu His His Gly Val Asp Pro Val Gly Ile Phe Arg Ala
 115 120 125
 Ala Ser Val Ala Leu Phe Ser Gly His Ala Ser Gln Gly Ala Ser Thr
 130 135 140
 Ile Thr Gln Gln Leu Ala Arg Asn Phe Phe Leu Ser Pro Glu Lys Thr
 145 150 155 160
 Leu Met Arg Lys Ile Lys Glu Val Phe Leu Ala Ile Arg Ile Glu Gln
 165 170 175
 Leu Leu Ser Lys Asp Glu Ile Leu Glu Leu Tyr Leu Asn Lys Ile Tyr
 180 185 190
 Leu Gly Tyr Arg Ala Tyr Gly Val Gly Ala Ala Ala Gln Val Tyr Phe
 195 200 205
 Gly Lys Pro Ile Asp Gln Leu Thr Leu Ser Glu Met Ala Thr Ile Ala
 210 215 220
 Gly Leu Pro Lys Ala Pro Ser Thr Phe Asn Pro Leu Tyr Ser Gln Asp

225					230					235				240
Arg	Ala	Thr	Ala	Arg	Arg	Asn	Val	Val	Leu	Ser	Arg	Met	Leu	Ser
				245					250					255
Gly	Tyr	Ile	Ser	Gln	Ser	Glu	Tyr	Asp	Lys	Ala	Arg	Ser	Asp	Val
			260					265					270	
Asp	Ala	Asn	Tyr	His	Ala	Pro	Glu	Ile	Ala	Phe	Ser	Ala	Pro	Tyr
		275					280					285		
Thr	Glu	Met	Val	Arg	Gln	Glu	Met	Val	Ser	Arg	Tyr	Gly	Asp	Lys
	290					295					300			
Tyr	Glu	Asp	Gly	Tyr	Arg	Val	Tyr	Thr	Thr	Val	Thr	Arg	Lys	Val
305					310					315				320
Gln	Ala	Ala	Gln	Gln	Ala	Val	Arg	Asn	Asn	Val	Met	Asp	Tyr	Asp
			325					330						335
Arg	His	Gly	Tyr	Arg	Gly	Pro	Ser	Asn	Val	Leu	Trp	Lys	Val	Gly
			340					345					350	
Gly	Ala	Trp	Asp	Ser	Lys	Lys	Ile	Thr	Asp	Ser	Leu	Lys	Ala	Leu
	355						360					365		
Thr	Tyr	Gly	Pro	Leu	Arg	Pro	Ala	Val	Val	Thr	Gln	Ala	Asp	Pro
	370					375					380			
Glu	Ala	Val	Ala	Met	Met	Ala	Asp	Gly	Thr	Ser	Val	Ser	Leu	Arg
385					390					395				400
Glu	Gly	Val	Arg	Trp	Ala	Arg	Pro	Tyr	Arg	Ser	Asp	Thr	Leu	Gln
			405					410						415
Pro	Thr	Pro	Arg	Lys	Val	Thr	Asp	Val	Val	Gln	Thr	Gly	Gln	Gln
			420					425					430	
Trp	Val	Arg	Gln	Val	Gly	Asp	Ala	Trp	Trp	Leu	Ala	Gln	Val	Pro
	435						440					445		
Val	Asn	Ser	Ala	Leu	Val	Ser	Ile	Asn	Pro	Gln	Asn	Gly	Ala	Val
	450					455					460			
Ala	Leu	Val	Gly	Gly	Phe	Asp	Phe	Asn	Gln	Ser	Lys	Phe	Asn	Arg
465					470					475				480
Thr	Gln	Ala	Leu	Arg	Gln	Val	Gly	Ser	Asn	Ile	Lys	Pro	Phe	Leu
			485					490						495
Thr	Ala	Ala	Met	Asp	Lys	Gly	Leu	Thr	Leu	Ala	Ser	Ile	Leu	Asn
			500					505					510	
Val	Pro	Ile	Ser	Arg	Trp	Asp	Ala	Gly	Ala	Gly	Ser	Asp	Trp	Gln
	515						520					525		
Lys	Asn	Ser	Pro	Ala	Gln	Tyr	Ala	Gly	Pro	Ile	Arg	Leu	Arg	Gln
	530					535					540			
Leu	Gly	Gln	Ser	Lys	Asn	Val	Val	Met	Val	Arg	Ala	Met	Arg	Ala
545					550				555					560
Gly	Val	Asp	Tyr	Ala	Ala	Glu	Tyr	Leu	Gln	Arg	Phe	Gly	Phe	Pro
			565					570						575
Gln	Asn	Ile	Val	His	Thr	Glu	Ser	Leu	Ala	Leu	Gly	Ser	Ala	Ser
			580					585					590	
Thr	Pro	Leu	Gln	Val	Ala	Arg	Gly	Tyr	Ser	Val	Met	Ala	Asn	Gly
	595						600					605		
Phe	Leu	Val	Asp	Pro	Tyr	Phe	Ile	Ser	Asn	Ile	Glu	Asn	Asp	Gln
	610					615					620			
Gly	Val	Leu	Phe	Glu	Ala	Lys	Pro	Lys	Ile	Ala	Cys	Pro	Glu	Cys
625					630				635					640
Ile	Pro	Val	Ile	Tyr	Gly	Asp	Thr	Pro	Lys	Ser	Asn	Val	Leu	Glu
			645					650						655
Lys	Asp	Met	Glu	Asp	Val	Ala	Ile	Ser	Gln	Glu	Arg	Gln	Asn	Leu
		660						665					670	
Val	Pro	Gln	Pro	Gln	Leu	Glu	Gln	Ala	Asn	Gln	Ala	Leu	Val	Ala
	675						680					685		
Ser	Gly	Val	Gln	Glu	Tyr	Ala	Pro	His	Val	Ile	Ser	Thr	Pro	Leu
	690					695					700			
Phe	Leu	Ile	Lys	Ser	Ala	Leu	Asn	Thr	Asn	Ile	Phe	Gly	Glu	Pro
705					710					715				720

Trp Gln Gly Thr Gly Trp Arg Ala Gly Arg Asp Leu Gln Arg His Asp
 725 730
 Ile Gly Gly Lys Thr Gly Thr Thr Asn Ser Ser Lys Asp Ala Trp Phe
 740 745 750
 Ser Gly Tyr Gly Pro Gly Val Val Thr Ser Val Trp Ile Gly Phe Asp
 755 760 765
 Asp His Arg Arg Thr Leu Gly Arg Thr Thr Ala Ser Gly Ala Ile Lys
 770 775 780
 Asp Gln Ile Ser Gly Tyr Glu Gly Gly Ala Lys Ser Ala Gln Pro Ala
 785 790 795 800
 Trp Asp Ala Tyr Met Lys Ala Ala Leu Glu Gly Val Pro Glu Gln Pro
 805 810 815
 Leu Thr Pro Pro Gly Ile Val Thr Ile Asn Ile Asp Arg Ser Thr
 820 825 830
 Gly Gln Leu Ala Asn Gly Gly Asn Ser Arg Ala Glu Tyr Phe Ile Glu
 835 840 845
 Gly Thr Gln Pro Thr Thr Gln Ala Val His Glu Val Gly Thr Glu Ile
 850 855 860
 Ile Asp Asn Gly Glu Thr His Glu Leu Phe
 865 870 875

<210> 8963

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 8963

Leu Ala Cys Cys Ala Gly Arg Val Ala Ala Leu Thr Leu Thr Cys Trp
 1 5 10 15
 Gln Arg Ala Lys Pro Gln Arg Pro Ala Val Thr Ala Gln Gln Ala Thr
 20 25 30
 Val Thr Glu Gly Lys Lys Met Ala Ser Leu Ile Gln Val Arg Asp Leu
 35 40 45
 Leu Ala Leu Gln Gly Arg Met Glu Ala Lys Gln Leu Ser Leu Ser Leu
 50 55 60
 His Thr Pro Gln Pro Met Ile Asp Ala Met Leu Glu Arg Leu Glu Ala
 65 70 75 80
 Met Gly Lys Ala Val Arg Ile Gln Glu Glu Pro Asp Gly Cys Leu Ser
 85 90 95
 Gly Ser Cys Lys Ser Cys Pro Glu Gly Lys Ala Cys Leu Arg Glu Trp
 100 105 110
 Trp Thr Leu Arg
 115

<210> 8964

<211> 461

<212> PRT

<213> Enterobacter cloacae

<400> 8964

Gly Asn Val Val Asp His Leu Pro Ile Phe Cys Gln Leu Arg Asn Arg
 1 5 10 15
 Asp Cys Leu Leu Val Gly Gly Gly Asp Val Ala Glu Arg Lys Ala Arg
 20 25 30
 Leu Leu Leu Glu Ala Gly Ala Arg Leu Thr Val Asn Ala Leu Thr Phe
 35 40 45
 Ala Pro Gln Phe Asp Val Trp Ala Gln Glu Gly Met Leu Thr Gln Val
 50 55 60
 Gln Gly Glu Phe Asp Glu Ser Leu Leu Asp Thr Cys Trp Leu Thr Ile
 65 70 75 80
 Ala Ala Thr Asp Asn Asp Asp Val Asn Gln Arg Val Ser Asp Ala Cys

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<210> 8965
<211> 717
<212> PRT
<213> Enterobacter cloacae
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<400> 8965															
Asp	Gly	Glu	Ser	Met	Ser	Thr	Ile	Leu	Ile	Phe	Leu	Ala	Ala	Val	Leu
1				5					10					15	
Ala	Cys	Ala	Ser	Ile	Ala	Val	Trp	Val	Phe	Arg	Arg	Arg	Val	His	Arg
			20					25					30		
Arg	Tyr	Arg	Leu	Pro	Phe	Leu	Asn	Ala	Phe	Ala	Gly	Ala	Asn	Thr	Arg
		35					40					45			
Lys	Leu	Ser	Pro	Glu	Glu	Arg	Ser	Thr	Val	Glu	Gln	Tyr	Leu	Asp	Thr

50	55	60
Leu Asn Arg Ser Arg	Leu Ser Pro Gly Pro Thr	Gly Ala Ser Thr Ala
65	70	75
Pro Val Ser Leu Asn	Leu Asn Ala Gln Ser Asp Thr	Val Leu Cys Val
85	90	95
Thr Arg Ser Ile Thr	Arg Tyr Gly Ile Thr Thr	Asp Asp Pro Asn Lys
100	105	110
Trp Arg Tyr Tyr Leu	Asp Ser Val Glu Val His Leu	Pro Pro Phe Trp
115	120	125
Glu Gln Tyr Ile Asn	Asp Glu Asn Ser Val Glu Leu	Ile His Thr Asp
130	135	140
Thr Leu Pro Leu Val	Ile Ser Leu Asn Gly His Thr	Leu Ser Glu Tyr
145	150	155
Val Gln Glu Ala Pro	Arg Phe Ala Leu Glu Arg Ala	Ser Gly Thr Gln
165	170	175
Ala Ser Ile Arg Gly	Glu Glu Thr Glu Gln Ile Glu	Leu Leu Asn Ile
180	185	190
Arg Gln Glu Thr His	Glu Glu Tyr Val Leu Ser Arg	Pro Asp Gly Ile
195	200	205
Arg Glu Ala Val Leu	Ile Val Ala Ser Phe Leu Leu	Phe Phe Ile Cys
210	215	220
Leu Leu Thr Pro Asp	Val Phe Val Pro Trp Leu Ala	Gly Gly Ala Val
225	230	235
Leu Leu Leu Ala Ala	Gly Leu Trp Gly Ile Phe Ala	Pro Pro Ala Lys
245	250	255
Thr Ser Leu Arg Glu	Ile His Cys Leu Arg Gly Thr	Pro Lys Arg Trp
260	265	270
Gly Leu Phe Gly Glu	Asn Asp Gln Glu His Ile Asn	Asn Ile Ser Leu
275	280	285
Gly Ile Ile Asp Leu	Ile Tyr Pro Arg His Trp Gln	Pro Trp Ile Ala
290	295	300
Gln Asp Leu Gly His	Lys Thr Asp Ile Asp Ile Tyr	Leu Asp Arg His
305	310	315
Val Val Arg Gln Gly	Arg Tyr Leu Ser Leu His Asp	Glu Val Lys Asn
325	330	335
Phe Pro Leu Gln His	Trp Leu Arg Ser Ala Val Ile	Ala Gly Gly Ala
340	345	350
Ala Leu Ile Phe Leu	Met Leu Leu Leu Phe Val Pro	Leu Asp Met Pro
355	360	365
Ile Lys Phe Thr Leu	Ser Trp Ile Lys Gly Ala Gln	Thr Val Glu Ala
370	375	380
Thr Ser Val Gln Gln	Leu Glu Glu Ala Gly Val Arg	Val Gly Asp Thr
385	390	395
Leu Arg Leu Lys Gly	Thr Gly Met Cys Asn Ile His	Ser Pro Gly Ala
405	410	415
Trp Asn Thr Arg Gln	Asn Ser Pro Phe Ala Pro Phe	Asp Cys Ser Gln
420	425	430
Ile Ile Trp Asn Asp	Ala Ser Pro Leu Pro Glu Ser	Asp Val
435	440	445
Val Asn Lys Ala Thr	Ala Leu Thr Gln Thr Ile Asn	Arg Gln Leu His
450	455	460
Pro Lys Pro Asp Asp	Asp Ser Arg Val Ser Pro Ala	Leu Arg Ser Ala
465	470	475
Ile Gln Lys Ser Gly	Met Val Leu Leu Asp Asp Phe	Gly Glu Ile Val
485	490	495
Leu Lys Thr Glu Asp	Leu Cys Ser Ala Gln Asp Asp	Cys Ile Arg Leu
500	505	510
Lys Asn Ala Leu Val	Asn Leu Gly Asn Ser Lys Asp	Trp Asp Ala Leu
515	520	525
Val Lys Arg Ala Glu	Ala Gly Arg Leu Asp Gly Val	Asn Val Leu Leu
530	535	540

Arg Pro Val Ser Ala Glu Ser Leu Asp Asn Leu Val Ala Thr Ser Thr
 545 550 555 560
 Ala Pro Phe Val Met Arg Glu Thr Thr Arg Ala Ala Gln Ala Leu Asn
 565 570 575
 Ser Pro Ala Pro Gly Gly Phe Val Ile Ala Ser Asp Glu Gly Ser Asp
 580 585 590
 Leu Val Asp Gln Pro Tyr Pro Gln Val Ser Leu Tyr Asp Tyr Pro Ala
 595 600 605
 Gln Glu Gln Trp Ser Glu Phe Gln Arg Leu Ala Gln Met Leu Met Gln
 610 615 620
 Thr Pro Phe Ser Ala Glu Gly Ile Val Thr Thr Leu Phe Thr Asp Ala
 625 630 635 640
 Asn Gly Thr Arg His Ile Gly Leu His Arg Met Pro Asp Ser Ala Gly
 645 650 655
 Leu Trp Arg Tyr Ile Gly Thr Ser Leu Leu Leu Ile Ala Met Leu Ala
 660 665 670
 Cys Ile Val Trp Asn Gly Tyr Gln Ala Val Arg Arg Tyr Gln Arg Ser
 675 680 685
 Arg Thr Arg Leu Ala Glu Ile Gln Ala Tyr Tyr Glu Asn Cys Leu Asn
 690 695 700
 Pro Lys Leu Ile Ser Ser Glu Ser Leu Ile Gly
 705 710 715

<210> 8966

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 8966

Lys Lys Leu Ser Ala Thr Ser Gly Ala Glu Arg Leu Ser Pro Asp Asp
 1 5 10 15
 Pro Leu Thr His Arg Glu Gly Asp Ala Met Lys Glu Lys Pro Ser Asp
 20 25 30
 Gly Val Arg Leu Asp Lys Trp Leu Trp Ala Ala Arg Phe Tyr Lys Thr
 35 40 45
 Arg Ala Leu Ala Arg Glu Met Val Asp Gly Gly Lys Val His Tyr Asn
 50 55 60
 Gly Gln Arg Ser Lys Pro Ser Lys Leu Val Glu Leu Asn Ala Thr Leu
 65 70 75 80
 Thr Leu Arg Gln Gly Asn Asp Glu Lys Thr Val Val Val Lys Ala Ile
 85 90 95
 Thr Glu Gln Arg Arg Pro Ala Thr Glu Ala Val Leu Leu Tyr Glu Glu
 100 105 110
 Thr Ala Glu Ser Ile Glu Lys Arg Glu Lys Thr Ala Leu Ala Arg Lys
 115 120 125
 Met Asn Ala Leu Thr Met Pro His Pro Asp Arg Arg Pro Asp Lys Lys
 130 135 140
 Glu Arg Arg Asp Leu Met Lys Phe Lys His Gly Glu Ser Glu
 145 150 155

<210> 8967

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 8967

Pro Ser Pro Ala Arg Glu Met Lys Met Ala Gln His Asp Gln Leu His
 1 5 10 15
 Arg Tyr Leu Phe Glu Gln Phe Ala Val Arg Gly Glu Leu Val Thr Val
 20 25 30
 Ser Glu Thr Trp Lys Gln Ile Leu Glu Asn His Asn Tyr Pro Leu Pro

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<210> 8968
<211> 559
<212> PRT
<213> Enterobacter cloacae
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<400> 8968															
His	Pro	Gln	Lys	Asn	Pro	Thr	Ile	Ser	Gly	Ser	Thr	Tyr	Trp	Leu	Arg
1				5					10					15	
Ser	Ser	Asp	Met	Arg	Val	Asn	Gly	Leu	Thr	Pro	Gln	Asp	Leu	Lys	Ala
			20					25					30		
Tyr	Gly	Ile	His	Asp	Val	Gln	Glu	Val	Val	Tyr	Asn	Pro	Asp	Tyr	Asp
		35					40					45			
Thr	Leu	Tyr	Gln	Glu	Glu	Leu	Asn	Pro	Ala	Leu	Glu	Gly	Tyr	Glu	Arg
	50					55					60				
Gly	Val	Leu	Thr	Asn	Leu	Gly	Ala	Ile	Ala	Val	Asp	Thr	Gly	Ile	Phe
65				70						75					80
Thr	Gly	Arg	Ser	Pro	Lys	Asp	Lys	Tyr	Ile	Val	Arg	Asp	Asp	Thr	Thr
				85					90					95	
Arg	Asp	Thr	Leu	Trp	Trp	Ala	Asp	Lys	Gly	Lys	Gly	Lys	Asn	Asp	Asn
			100					105					110		
Lys	Pro	Leu	Ser	Pro	Glu	Thr	Trp	Gln	His	Leu	Lys	Gly	Leu	Val	Thr
		115					120					125			
His	Gln	Leu	Ser	Gly	Lys	Arg	Leu	Phe	Ile	Ile	Asp	Ala	Phe	Cys	Gly
	130					135					140				
Ala	Asn	Ala	Asp	Thr	Arg	Leu	Ser	Val	Arg	Phe	Ile	Thr	Glu	Val	Ala
145					150					155					160
Trp	Gln	Ala	His	Phe	Val	Lys	Asn	Met	Phe	Ile	Arg	Pro	Thr	Asp	Glu

				165				170					175				
Glu	Leu	Gln	Asp	Phe	Thr	Pro	Asp	Phe	Ile	Val	Met	Asn	Gly	Ala	Lys		
			180					185					190				
Cys	Thr	Asn	Pro	Gln	Trp	Lys	Glu	Gln	Gly	Leu	Asn	Ser	Glu	Asn	Phe		
		195					200					205					
Ile	Ala	Phe	Asn	Leu	Thr	Glu	Arg	Ile	Gln	Leu	Ile	Gly	Gly	Thr	Trp		
	210					215					220						
Tyr	Gly	Gly	Glu	Met	Lys	Lys	Gly	Met	Phe	Ser	Val	Met	Asn	Tyr	Leu		
225					230					235					240		
Leu	Pro	Leu	Arg	Gly	Ile	Ala	Ser	Met	His	Cys	Ser	Ala	Asn	Val	Gly		
			245					250						255			
Glu	Lys	Gly	Asp	Val	Ala	Val	Phe	Phe	Gly	Leu	Ser	Gly	Thr	Gly	Lys		
			260					265						270			
Thr	Thr	Leu	Ser	Thr	Asp	Pro	Lys	Arg	Arg	Leu	Ile	Gly	Asp	Asp	Glu		
		275					280					285					
His	Gly	Trp	Asp	Asp	Asp	Gly	Val	Phe	Asn	Phe	Glu	Gly	Gly	Cys	Tyr		
	290					295					300						
Ala	Lys	Thr	Ile	Arg	Leu	Ser	Glu	Glu	Ala	Glu	Pro	Asp	Ile	Tyr	His		
305					310					315					320		
Ala	Ile	Arg	Arg	Asp	Ala	Leu	Leu	Glu	Asn	Val	Thr	Val	Arg	Ala	Asp		
			325					330						335			
Gly	Ser	Ile	Asp	Phe	Asp	Asp	Ala	Ser	Lys	Thr	Glu	Asn	Thr	Arg	Val		
		340						345					350				
Ser	Tyr	Pro	Ile	Tyr	His	Ile	Glu	Asn	Ile	Val	Lys	Pro	Val	Ser	Lys		
	355						360					365					
Ala	Gly	His	Ala	Thr	Lys	Val	Ile	Phe	Leu	Thr	Ala	Asp	Ala	Phe	Gly		
	370					375					380						
Val	Leu	Pro	Pro	Val	Ser	Arg	Leu	Thr	Ala	Ser	Gln	Thr	Gln	Tyr	His		
385					390					395					400		
Phe	Leu	Ser	Gly	Phe	Thr	Ala	Lys	Leu	Ala	Gly	Thr	Glu	Arg	Gly	Val		
			405					410						415			
Thr	Glu	Pro	Thr	Pro	Thr	Phe	Ser	Ala	Cys	Phe	Gly	Ala	Ala	Phe	Leu		
			420					425					430				
Ser	Leu	His	Pro	Thr	Gln	Tyr	Ala	Glu	Val	Leu	Val	Lys	Arg	Met	Gln		
		435					440					445					
Ala	Ser	Gly	Ala	Gln	Ala	Tyr	Leu	Val	Asn	Thr	Gly	Trp	Asn	Gly	Thr		
	450					455				460							
Gly	Lys	Arg	Ile	Ser	Ile	Lys	Asp	Thr	Arg	Ala	Ile	Ile	Asp	Ala	Ile		
465					470					475					480		
Leu	Asp	Gly	Ser	Leu	Asp	Asn	Ala	Glu	Thr	Phe	Thr	Leu	Pro	Met	Phe		
			485					490					495				
Asp	Leu	Ala	Ile	Pro	Thr	Ala	Leu	Pro	Gly	Val	Asp	Thr	Arg	Ile	Leu		
		500					505						510				
Asp	Pro	Arg	Asn	Thr	Tyr	Gly	Ser	Pro	Glu	Gln	Trp	Arg	Glu	Lys	Ala		
		515				520						525					
Glu	Ser	Leu	Ala	Lys	Leu	Phe	Ile	Glu	Asn	Phe	Glu	Lys	Tyr	Thr	Asp		
	530				535					540							
Thr	Pro	Ala	Gly	Ala	Ala	Leu	Val	Ser	Ala	Gly	Pro	Lys	Leu				
545				550						555							

<210> 8969

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 8969

Arg	Ser	Ile	Thr	Ala	Cys	Gly	Gln	Thr	Asn	Phe	Ala	Ala	Arg	Ser	Ala		
1				5					10				15				
Phe	Ala	Ser	Cys	Phe	Arg	Ala	Val	Arg	Asp	Lys	His	Val	Ala	Gln	Thr		
			20					25				30					
Pro	Asn	Gly	Leu	Asn	Ile	Thr	Arg	Met	Arg	Arg	Ile	Phe	Phe	His	His		

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<210> 8970
<211> 218
<212> PRT
<213> Enterobacter cloacae
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Lys 1	Ser	Ala	Arg	Val 5	Arg	Pro	Ala	Asn	Ser 10	Gly	Ile	Asn	Ser	Arg 15	Arg
Asn	Cys	Tyr	Lys 20	Ala	Tyr	Leu	Thr	Ala 25	Ala	Tyr	Leu	Phe	Ile 30	Ser	Ser
His	Lys	Ser 35	Leu	Leu	Ile	Leu	Ser 40	Val	Thr	Leu	Cys	Ala 45	Thr	Tyr	Cys
Ala	Gln 50	Arg	Gln	Leu	Thr	Gly 55	Ile	Lys	Gly	Cys	Thr 60	Met	Lys	Thr	Pro
Leu 65	Ile	Thr	Arg	Glu	Gly 70	Tyr	Glu	Lys	Leu	Lys 75	Lys	Glu	Met	Asp	Tyr 80
Leu	Trp	Arg	Glu	Glu 85	Arg	Pro	Glu	Val 90	Thr	Lys	Lys	Val	Thr 95	Trp	Ala
Ala	Ser	Leu	Gly 100	Asp	Arg	Ser	Glu	Asn 105	Ala	Asp	Tyr	Gln	Tyr 110	Asn	Lys
Lys	Arg	Leu 115	Arg	Glu	Ile	Asp	Arg	Arg 120	Val	Arg	Tyr	Leu	Thr 125	Lys	Cys
Leu	Glu 130	Asn	Leu	Lys	Ile 135	Val	Asp	Tyr	Ser	Pro	Gln	Gln 140	Glu	Gly	Lys
Val 145	Phe	Phe	Gly	Ala	Trp 150	Val	Glu	Ile	Glu	Asn 155	Asp	Asn	Gly	Asp	Thr 160
Leu	Arg	Phe	Arg	Ile 165	Val	Gly	Tyr	Asp	Glu	Ile 170	Phe	Gly	Arg	Lys 175	Asp
Tyr	Ile	Ser 180	Ile	Asp	Ser	Pro	Met	Ala 185	Arg	Ala	Leu	Leu	Lys 190	Lys	Glu
Val	Gly	Asp	Leu	Ala	Val	Val	Gln	Thr	Pro	Ala	Gly	Glu	Ala	Ser	Trp

195 200 205
 Tyr Val Asn Glu Ile Val Tyr Val Lys
 210 215

<210> 8971
 <211> 806
 <212> PRT
 <213> Enterobacter cloacae

<400> 8971

Ser	Glu	Ser	Ala	Leu	Pro	Gly	Trp	His	Phe	Leu	Val	Ser	Ala	Arg	Ile
1			5						10					15	
Thr	Ile	Pro	Leu	Ile	Phe	Asp	Pro	Gln	Asp	Glu	Leu	Thr	Met	Met	Lys
		20						25					30		
Glu	Ser	Leu	Cys	Arg	Ile	Ile	Ala	Gly	Glu	Leu	Gln	Ala	Arg	Ala	Glu
		35					40					45			
Gln	Val	Glu	Ala	Ala	Val	Arg	Leu	Leu	Asp	Glu	Gly	Asn	Thr	Val	Pro
	50					55					60				
Phe	Ile	Ala	Arg	Tyr	Arg	Lys	Glu	Val	Thr	Gly	Gly	Leu	Asp	Asp	Thr
65					70				75						80
Gln	Leu	Arg	Asn	Leu	Glu	Thr	Arg	Leu	Gly	Tyr	Leu	Arg	Glu	Leu	Glu
			85						90					95	
Asp	Arg	Arg	Gln	Ala	Ile	Leu	Lys	Ser	Ile	Gly	Glu	Gln	Gly	Lys	Leu
			100					105					110		
Thr	Ser	Asp	Leu	Glu	Lys	Ala	Ile	Asn	Gly	Thr	Leu	Ser	Lys	Thr	Glu
		115					120					125			
Leu	Glu	Asp	Leu	Tyr	Leu	Pro	Tyr	Lys	Pro	Lys	Arg	Arg	Thr	Arg	Gly
	130					135					140				
Gln	Ile	Ala	Ile	Glu	Ala	Gly	Leu	Glu	Pro	Leu	Ala	Asp	Leu	Leu	Trp
145					150				155						160
Asn	Glu	Pro	Ser	His	Asp	Pro	Glu	Thr	Glu	Ala	Ala	Lys	Phe	Ile	Asp
				165					170					175	
Ala	Asp	Lys	Gly	Val	Ala	Asp	Thr	Lys	Ala	Ala	Leu	Asp	Gly	Ala	Arg
			180					185					190		
Tyr	Ile	Leu	Met	Glu	Arg	Phe	Ala	Glu	Asp	Ala	Ala	Leu	Leu	Ala	Lys
		195					200					205			
Val	Arg	Asp	Tyr	Leu	Trp	Lys	Asn	Ala	His	Ile	Val	Ser	Ser	Val	Val
	210					215					220				
Ser	Gly	Lys	Glu	Glu	Glu	Gly	Ala	Lys	Phe	Arg	Asp	Tyr	Phe	Asp	His
225					230					235					240
His	Glu	Pro	Ile	Ser	Thr	Ala	Pro	Ser	His	Arg	Ala	Leu	Ala	Met	Phe
				245					250					255	
Arg	Gly	Arg	Asn	Glu	Gly	Val	Leu	Gln	Leu	Ser	Leu	Asn	Ala	Asp	Pro
			260					265					270		
Gln	Phe	Asp	Glu	Pro	Pro	Lys	Glu	Ser	His	Cys	Glu	Gln	Ile	Ile	Met
		275					280					285			
Asp	His	Leu	Gly	Leu	Arg	Leu	Asn	Asn	Ala	Pro	Ala	Asp	Ser	Trp	Arg
	290					295					300				
Lys	Gly	Val	Val	Ser	Trp	Thr	Trp	Arg	Ile	Lys	Val	Leu	Met	His	Leu
305					310					315					320
Glu	Thr	Glu	Leu	Met	Gly	Thr	Val	Arg	Glu	Arg	Ala	Glu	Asp	Glu	Ala
			325						330					335	
Ile	Asn	Val	Phe	Ala	Arg	Asn	Leu	His	Asp	Leu	Leu	Met	Ala	Ala	Pro
			340					345					350		
Ala	Gly	Leu	Arg	Ala	Thr	Met	Gly	Leu	Asp	Pro	Gly	Leu	Arg	Thr	Gly
		355					360					365			
Val	Lys	Val	Ala	Val	Val	Asp	Gly	Thr	Gly	Lys	Leu	Val	Ala	Thr	Asp
	370					375					380				
Thr	Ile	Tyr	Pro	His	Thr	Gly	Gln	Ala	Ala	Lys	Ala	Ala	Val	Val	Val
385					390					395					400
Ala	Ala	Leu	Cys	Glu	Lys	Tyr	Asn	Val	Glu	Leu	Val	Ala	Ile	Gly	Asn

```
<210> 8972
<211> 285
<212> PRT
<213> Enterobacter cloacae
```

Ile His Gln Val Tyr Arg Glu Leu Arg Gly Gln Phe Leu Thr Tyr Ala
1 5 10 15
Thr Pro His Phe Gly Val Gln Ser Pro Ser Val Gln Gln His Lys Met

```
<210> 8973
<211> 400
<212> PRT
<213> Enterobacter cloacae
```

<400> 8973															
Asn	Asn	Asp	Val	Thr	His	Asn	Asn	Ser	Lys	Ala	Arg	Ser	Ile	Met	Pro
1				5					10					15	
Leu	Phe	Ile	Val	Ala	Ile	Gly	Val	Val	Leu	Leu	Leu	Leu	Leu	Met	Ile
			20					25					30		
Arg	Phe	Lys	Met	Asn	Gly	Phe	Ile	Ala	Leu	Val	Leu	Val	Ala	Leu	Ala
		35					40					45			
Val	Gly	Leu	Met	Gln	Gly	Met	Pro	Leu	Val	Lys	Val	Ile	Ser	Ser	Ile
	50					55					60				
Lys	Ala	Gly	Val	Gly	Gly	Thr	Leu	Gly	Ser	Leu	Ala	Leu	Ile	Met	Gly
65				70						75				80	
Phe	Gly	Ala	Met	Leu	Gly	Lys	Met	Leu	Ala	Asp	Cys	Gly	Gly	Ala	Gln
				85					90					95	
Arg	Ile	Ala	Thr	Thr	Leu	Ile	Asp	Lys	Phe	Gly	Lys	Gln	His	Ile	Gln
			100					105					110		
Trp	Ala	Val	Val	Leu	Thr	Gly	Phe	Thr	Val	Gly	Phe	Ala	Leu	Phe	Tyr
		115					120					125			
Glu	Val	Gly	Phe	Val	Leu	Met	Leu	Pro	Leu	Val	Phe	Thr	Ile	Ala	Ala
	130					135					140				
Ala	Ala	Asn	Ile	Pro	Leu	Phe	Val	Gly	Val	Pro	Met	Ala	Ala	Ala	Ala
145				150					155					160	
Leu	Ser	Val	Thr	His	Gly	Phe	Leu	Pro	Pro	His	Pro	Gly	Pro	Thr	Ala

				165					170				175				
Ile	Ala	Thr	Ile	Phe	His	Ala	Asp	Met	Gly	Lys	Thr	Leu	Leu	Phe	Gly		
			180					185					190				
Thr	Ile	Leu	Ala	Ile	Pro	Thr	Val	Ile	Leu	Ala	Gly	Pro	Val	Tyr	Ala		
		195					200					205					
Arg	Phe	Leu	Lys	Gly	Ile	Asp	Lys	Pro	Ile	Pro	Glu	Gly	Leu	Tyr	Ser		
	210					215					220						
Ala	Lys	Thr	Phe	Thr	Glu	Glu	Asp	Met	Pro	Gly	Phe	Gly	Val	Ser	Val		
225					230					235					240		
Trp	Thr	Ser	Leu	Val	Pro	Val	Ile	Leu	Met	Ala	Met	Arg	Ala	Ile	Ala		
				245				250						255			
Glu	Met	Val	Leu	Pro	Lys	Gly	His	Ala	Phe	Leu	Ser	Val	Ala	Glu	Phe		
			260					265					270				
Leu	Gly	Asp	Pro	Val	Met	Ala	Thr	Leu	Ile	Ala	Val	Leu	Ile	Ala	Met		
		275					280					285					
Phe	Thr	Phe	Gly	Leu	Asn	Arg	Gly	Arg	Ser	Met	Asp	Gln	Ile	Asn	Asp		
	290					295					300						
Thr	Leu	Thr	Ser	Ser	Ile	Lys	Ile	Ile	Ala	Met	Met	Leu	Leu	Ile	Ile		
305					310						315				320		
Gly	Gly	Gly	Gly	Ala	Phe	Lys	Gln	Val	Leu	Val	Asp	Ser	Gly	Val	Asp		
				325					330					335			
Lys	Tyr	Ile	Ala	Ala	Met	Met	His	Glu	Thr	Asn	Val	Ser	Pro	Leu	Leu		
			340					345					350				
Met	Ala	Trp	Ser	Ile	Ala	Ala	Val	Leu	Arg	Ile	Ala	Leu	Gly	Ser	Ala		
		355					360					365					
Thr	Val	Ala	Ala	Ile	Thr	Ala	Gly	Gly	Ile	Val	Ala	Pro	Leu	Ile	Ala		
	370					375					380						
Thr	Thr	Gly	Val	Ser	Pro	Glu	Leu	Met	Val	Ile	Ala	Val	Gly	Ser	Gly		
385					390					395					400		

<210> 8974

<211> 450

<212> PRT

<213> Enterobacter cloacae

<400> 8974

Ser	Met	Arg	Arg	Met	Arg	Phe	Ser	Pro	Arg	Ser	Ser	Phe	Ala	Arg	Thr		
1				5					10					15			
Leu	Leu	Leu	Ile	Val	Thr	Leu	Leu	Phe	Val	Ser	Leu	Val	Thr	Thr	Tyr		
			20					25					30				
Leu	Val	Val	Leu	Asn	Phe	Ala	Ile	Leu	Pro	Ser	Leu	Gln	Gln	Phe	Asn		
		35					40					45					
Lys	Val	Leu	Ala	Tyr	Glu	Val	Arg	Met	Leu	Met	Thr	Asp	Lys	Leu	Gln		
	50					55					60						
Leu	Glu	Asp	Gly	Thr	Gln	Leu	Val	Val	Pro	Pro	Ala	Phe	Arg	Arg	Glu		
65					70					75					80		
Ile	Tyr	Arg	Glu	Leu	Gly	Ile	Ser	Leu	Tyr	Ser	Asn	Glu	Ala	Ala	Glu		
				85					90					95			
Asp	Ala	Gly	Leu	Arg	Trp	Ala	Gln	His	Tyr	Glu	Phe	Leu	Ser	Gln	Gln		
			100					105					110				
Met	Ala	Gln	Gln	Leu	Gly	Gly	Pro	Thr	Glu	Val	Arg	Val	Glu	Val	Asn		
		115					120					125					
Lys	Ser	Ser	Pro	Val	Val	Trp	Leu	Lys	Thr	Trp	Leu	Ser	Pro	Asn	Ile		
	130					135					140						
Trp	Val	Arg	Val	Pro	Leu	Thr	Glu	Ile	His	Gln	Gly	Asp	Phe	Ser	Pro		
145					150					155					160		
Leu	Phe	Arg	Tyr	Thr	Leu	Ala	Ile	Met	Leu	Leu	Ala	Ile	Gly	Gly	Ala		
				165					170					175			
Trp	Leu	Phe	Ile	Arg	Ile	Gln	Asn	Arg	Pro	Leu	Val	Asp	Leu	Glu	His		
			180					185					190				
Ala	Ala	Leu	Gln	Val	Gly	Lys	Gly	Ile	Ile	Pro	Pro	Pro	Leu	Arg	Glu		

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<210> 8975
<211> 162
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

<210> 8976
 <211> 214
 <212> PRT
 <213> Enterobacter cloacae

<400> 8976

```

Asp Asn Phe Ser Ser Asp Ser Arg Ser Ile Ala Asn Glu Val Ser Val
1      5      10      15
His Val Leu Leu Arg Arg Val Ser Ala Gln Arg Gly Leu Pro Leu Thr
      20      25      30
Asn Ser Leu Ser Ser Thr Glu Lys Met Ala Glu Lys Arg Asn Ile Phe
      35      40      45
Leu Val Gly Pro Met Gly Ala Gly Lys Ser Thr Ile Gly Arg Gln Leu
      50      55      60
Ala Gln Gln Leu Asn Met Glu Phe Tyr Asp Ser Asp Gln Glu Ile Glu
65      70      75      80
Lys Arg Thr Gly Ala Asp Val Gly Trp Val Phe Asp Val Lys Gly Glu
      85      90      95
Glu Gly Phe Arg Asp Arg Glu Glu Lys Val Ile Asn Glu Leu Thr Glu
      100     105     110
Lys Gln Gly Ile Val Leu Ala Thr Gly Gly Gly Ser Val Lys Ser Arg
      115     120     125
Glu Thr Arg Asn Arg Leu Ser Ala Arg Gly Val Val Val Tyr Leu Glu
130     135     140
Thr Thr Ile Glu Lys Gln Leu Ala Arg Thr Gln Arg Asp Lys Lys Arg
145     150     155     160
Pro Leu Leu Gln Val Glu Thr Pro Pro Arg Glu Val Leu Glu Ala Leu
      165     170     175
Ala Asp Glu Arg Asn Pro Leu Tyr Glu Glu Ile Ala Asp Val Thr Ile
      180     185     190
Arg Thr Asp Asp Gln Ser Ala Lys Val Val Ala Asn Gln Ile Ile His
195     200     205
Met Leu Glu Ser Asn
      210

```

<210> 8977
 <211> 368
 <212> PRT
 <213> Enterobacter cloacae

<400> 8977

```

Gly Gly Cys Arg Val Met Glu Arg Ile Thr Val Thr Leu Gly Glu Arg
1      5      10      15
Ser Tyr Pro Ile Thr Ile Ala Ala Gly Leu Phe Asn Asp Pro Ala Ser
      20      25      30
Phe Leu Pro Leu Lys Ala Gly Asp Gln Ala Met Leu Val Thr Asn Glu
      35      40      45
Thr Leu Ala Pro Leu Tyr Leu Asp Arg Val Arg His Leu Leu Glu Gln
      50      55      60
Ala Gly Val Lys Val Asp Ser Val Ile Leu Pro Asp Gly Glu Gln Tyr
65      70      75      80
Lys Ser Leu Thr Val Leu Asp Thr Val Phe Thr Ala Leu Leu Gln Lys
      85      90      95
Pro His Gly Arg Asp Thr Thr Leu Leu Ala Leu Gly Gly Gly Val Val
100     105     110
Gly Asp Leu Thr Gly Phe Ala Ala Ser Tyr Gln Arg Gly Val Arg
115     120     125
Phe Ile Gln Ile Pro Thr Thr Leu Leu Ser Gln Val Asp Ser Ser Val
130     135     140

```

Gly	Gly	Lys	Thr	Ala	Val	Asn	His	Pro	Leu	Gly	Lys	Asn	Met	Ile	Gly
145					150					155					160
Ala	Phe	Tyr	Gln	Pro	Ala	Ser	Val	Val	Val	Asp	Leu	Asp	Cys	Leu	Lys
				165						170					175
Thr	Leu	Pro	Ala	Arg	Glu	Leu	Ala	Ser	Gly	Leu	Ala	Glu	Val	Ile	Lys
			180					185						190	
Tyr	Gly	Ile	Ile	Leu	Asp	Gly	Glu	Phe	Phe	Thr	Trp	Leu	Glu	Glu	Asn
	195					200						205			
Met	Asp	Ala	Leu	Leu	Arg	Leu	Asp	Gly	Gln	Ala	Met	Ala	Tyr	Cys	Ile
	210					215					220				
Arg	Arg	Cys	Cys	Glu	Leu	Lys	Ala	Glu	Val	Val	Ala	Ala	Asp	Glu	Arg
225					230					235					240
Glu	Thr	Gly	Leu	Arg	Ala	Leu	Leu	Asn	Leu	Gly	His	Thr	Phe	Gly	His
				245					250					255	
Ala	Ile	Glu	Ala	Glu	Met	Gly	Tyr	Gly	Asn	Trp	Leu	His	Gly	Glu	Ala
			260					265						270	
Val	Ala	Ala	Gly	Met	Val	Met	Ala	Ala	Arg	Ala	Ser	Glu	Arg	Leu	Gly
	275						280						285		
Gln	Phe	Arg	Pro	Glu	Glu	Thr	Ala	Arg	Ile	Ile	Ala	Leu	Leu	Lys	Arg
	290					295					300				
Ala	Gly	Leu	Pro	Val	Ser	Gly	Pro	Gln	Glu	Met	Ser	Ala	Gln	Ala	Tyr
305					310					315					320
Leu	Pro	His	Met	Met	Arg	Asp	Lys	Lys	Val	Leu	Ala	Gly	Glu	Met	Arg
				325					330					335	
Leu	Val	Leu	Pro	Leu	Ala	Ile	Gly	Lys	Ser	Glu	Val	Arg	Gly	Gly	Val
			340				345						350		
Pro	His	Glu	Val	Val	Leu	Gly	Ala	Ile	Ala	Asp	Cys	Gln	Gln	Ala	
		355					360					365			

<210> 8978

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 8978

Ser	Ala	Gly	Cys	Cys	Arg	Ser	Phe	Leu	His	Ser	Arg	Arg	Arg	Cys	Asn
1				5					10					15	
Gln	Leu	Val	Ser	Met	Lys	Lys	Asn	Arg	Ala	Phe	Leu	Lys	Trp	Ala	Gly
			20					25					30		
Gly	Lys	Tyr	Pro	Leu	Leu	Asp	Asp	Ile	Lys	Lys	His	Leu	Pro	Lys	Gly
		35					40					45			
Glu	Cys	Leu	Ile	Glu	Pro	Phe	Val	Gly	Ala	Gly	Ser	Val	Phe	Leu	Asn
	50					55					60				
Thr	Asp	Phe	Ser	Arg	Tyr	Ile	Leu	Ala	Asp	Ile	Asn	Ser	Asp	Leu	Ile
65					70					75					80
Ser	Leu	Tyr	Asn	Ile	Val	Lys	Leu	Arg	Thr	Asp	Glu	Tyr	Val	Glu	Glu
				85					90					95	
Ala	Arg	Lys	Leu	Phe	Thr	Pro	Glu	Asn	Asn	Pro	Asp	Val	Tyr	Tyr	
			100					105					110		
Gln	Phe	Arg	Ala	Glu	Phe	Asn	Gln	Ser	Gln	Asp	Pro	Phe	Arg	Arg	Ala
		115					120					125			
Leu	Leu	Phe	Leu	Tyr	Leu	Asn	Arg	His	Gly	Tyr	Asn	Gly	Leu	Cys	Arg
		130				135					140				
Tyr	Asn	Leu	Arg	Gly	Glu	Phe	Asn	Val	Pro	Phe	Gly	Arg	Tyr	Lys	Arg
145					150					155					160
Pro	Tyr	Phe	Pro	Gln	Asp	Glu	Leu	Tyr	His	Phe	Ala	Glu	Lys	Ala	Gln
				165					170					175	
Asn	Ala	Glu	Phe	Tyr	Cys	Leu	Ser	Tyr	Glu	Glu	Cys	Met	Glu	Leu	Ala
			180					185					190		
Gly	Val	Asn	Ser	Val	Val	Tyr	Cys	Asp	Pro	Pro	Tyr	Ala	Pro	Leu	Ser
		195					200					205			

Ala Thr Ala Asn Phe Thr Ala Tyr His Thr Asn Ser Phe Ser Pro Ala
 210 215 220
 Glu Gln Ala Arg Leu Ala Glu Met Ala Glu Lys Leu Val Ser Lys Arg
 225 230 235 240
 Ile Pro Val Leu Ile Ser Asn His Asp Thr Pro Asp Thr Arg Glu Trp
 245 250 255
 Tyr Lys Ala Ala Lys His Phe Gln Val Lys Val Arg Arg Ser Ile Ser
 260 265 270
 Ser Asn Gly Gly Thr Arg Lys Lys Val Asp Glu Leu Leu Ala Leu Tyr
 275 280 285
 Arg Pro
 290

<210> 8979

<211> 233

<212> PRT

<213> Enterobacter cloacae

<400> 8979

Thr His Phe Lys Glu Met Arg Met Lys Gln Phe Leu Ile Ala Pro Ser
 1 5 10 15
 Ile Leu Ser Ala Asp Phe Ala Arg Leu Gly Glu Asp Thr Ala Lys Ala
 20 25 30
 Leu Ala Ala Gly Ala Asp Val Val His Phe Asp Val Met Asp Asn His
 35 40 45
 Tyr Val Pro Asn Leu Thr Ile Gly Pro Met Val Leu Lys Ala Leu Arg
 50 55 60
 Asn Tyr Gly Ile Thr Ala Pro Ile Asp Val His Leu Met Val Lys Pro
 65 70 75 80
 Val Asp Arg Ile Val Pro Asp Phe Ala Ala Gly Ala Ser Ile Ile
 85 90 95
 Thr Phe His Pro Glu Ala Ser Glu His Val Asp Arg Thr Leu Gln Leu
 100 105 110
 Ile Lys Glu Asn Gly Cys Lys Ala Gly Leu Val Phe Asn Pro Ala Thr
 115 120 125
 Pro Leu Ser Tyr Leu Asp Tyr Val Met Asp Lys Leu Asp Val Ile Leu
 130 135 140
 Leu Met Ser Val Asn Pro Gly Phe Gly Gly Gln Ser Phe Ile Pro Gln
 145 150 155 160
 Thr Leu Asp Lys Leu Arg Glu Val Arg Arg Ile Asp Glu Ser Gly
 165 170 175
 Tyr Asp Ile Arg Leu Glu Val Asp Gly Gly Val Lys Val Asn Asn Ile
 180 185 190
 Gly Glu Ile Ala Ala Ala Gly Ala Asp Met Phe Val Ala Gly Ser Ala
 195 200 205
 Ile Phe Asp Gln Pro Asp Tyr Lys Lys Val Ile Asp Glu Met Arg Arg
 210 215 220
 Glu Leu Ala Lys Val Ser His Gly
 225 230

<210> 8980

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 8980

Trp Arg Cys Arg Phe Pro Pro Val Arg Pro Ala Tyr Leu Leu Pro Cys
 1 5 10 15
 Arg Ala Pro Ala Val Ser Pro Glu Ser Trp Leu Pro Asp Leu Ala Pro
 20 25 30
 Cys Arg Arg Pro Ala Ser Ala Phe Gln Arg Pro Asp Tyr Ala Ser Pro


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<210> 8981
<211> 262
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 8982
<211> 278
<212> PRT
<213> Enterobacter cloacae
```

<400> 8982															
Ile	Cys	Phe	Val	Thr	Ile	Ser	Ser	Arg	Ile	Tyr	Thr	Arg	Ile	Cys	Trp
1				5					10					15	
Ser	Asn	Pro	Cys	Thr	Phe	Leu	Glu	Tyr	Ala	Val	Pro	Gly	Leu	Ser	Glu
			20					25					30		
Pro	Leu	Gly	Val	His	Thr	Met	Gln	Glu	Asn	Tyr	Lys	Ile	Leu	Val	Val
		35					40					45			

Asp Asp Asp Met Arg Leu Arg Ala Leu Leu Glu Arg Tyr Leu Thr Glu
 50 55 60
 Gln Gly Phe Gln Val Arg Ser Val Ala Asn Ala Glu Gln Met Asp Arg
 65 70 75 80
 Leu Leu Thr Arg Glu Ser Phe His Leu Met Val Leu Asp Leu Met Leu
 85 90 95
 Pro Gly Glu Asp Gly Leu Ser Ile Cys Arg Arg Leu Arg Ser Gln Ser
 100 105 110
 Asn Pro Met Pro Ile Ile Met Val Thr Ala Lys Gly Glu Glu Val Asp
 115 120 125
 Arg Ile Val Gly Leu Glu Ile Gly Ala Asp Asp Tyr Ile Pro Lys Pro
 130 135 140
 Phe Asn Pro Arg Glu Leu Leu Ala Arg Ile Arg Ala Val Leu Arg Arg
 145 150 155 160
 Gln Ala Asn Glu Leu Pro Gly Ala Pro Ser Gln Glu Glu Ala Val Ile
 165 170 175
 Ala Phe Gly Lys Phe Lys Leu Asn Leu Gly Thr Arg Glu Met Phe Arg
 180 185 190
 Glu Asp Glu Pro Met Pro Leu Thr Ser Gly Glu Phe Ala Val Leu Lys
 195 200 205
 Ala Leu Val Ser His Pro Arg Glu Pro Leu Ser Arg Asp Lys Leu Met
 210 215 220
 Asn Leu Ala Arg Gly Arg Glu Tyr Ser Ala Met Glu Arg Ser Ile Asp
 225 230 235 240
 Val Gln Ile Ser Arg Leu Arg Arg Met Val Glu Glu Asp Pro Ala His
 245 250 255
 Pro Arg Tyr Ile Gln Thr Val Trp Gly Leu Gly Tyr Val Phe Val Pro
 260 265 270
 Asp Gly Ser Lys Ala
 275

<210> 8983

<211> 197

<212> PRT

<213> Enterobacter cloacae

<400> 8983

Ser Gln Phe Thr Gln Gln Arg Pro Val Lys Met Thr Lys Pro Leu Gln
 1 5 10 15
 Lys Pro Thr Ile Leu Asn Val Glu Thr Val Ala Lys Ser Arg Leu Phe
 20 25 30
 Asn Val Glu Ser Val Asp Leu Glu Phe Ser Asn Gly Val Arg Arg Val
 35 40 45
 Tyr Glu Arg Met Arg Pro Ser Ser Arg Glu Ala Val Met Ile Val Pro
 50 55 60
 Ile Val Asp Glu His Leu Ile Leu Ile Arg Glu Tyr Ala Val Gly Thr
 65 70 75 80
 Glu Ser Tyr Glu Leu Gly Phe Ser Lys Gly Leu Ile Asp Pro Gly Glu
 85 90 95
 Thr Val Phe Glu Ala Ala Asn Arg Glu Leu Lys Glu Glu Val Gly Phe
 100 105 110
 Gly Ala Lys Glu Leu Thr Phe Leu Lys Lys Leu Ser Met Ala Pro Ser
 115 120 125
 Tyr Phe Ser Ser Lys Met Asn Ile Val Val Ala Glu Asp Leu Tyr Pro
 130 135 140
 Glu Ser Leu Glu Gly Asp Glu Pro Glu Pro Leu Pro Gln Val Arg Trp
 145 150 155 160
 Pro Leu Ala His Leu Met Asp Leu Leu Glu Asp Pro Asp Phe Asn Glu
 165 170 175
 Ala Arg Asn Val Ser Ala Leu Phe Leu Val Arg Glu Trp Leu Lys Gly
 180 185 190

```
<210> 8984
<211> 178
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

```
<210> 8985
<211> 152
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<210> 8986
 <211> 105
 <212> PRT
 <213> Enterobacter cloacae .

<400> 8986
 Arg Thr Ala Arg Val Ser Gly Val Tyr His Ala Thr Ser Gly Gln Tyr
 1 5 10 15
 Ser Val Met Gly Asn Asp Pro Arg Asn Asp Phe Ala Phe Ser Leu Leu
 20 25 30
 Gln Met Phe Asp Val Gly His Glu Leu Ala Tyr Lys Glu Tyr Arg Phe
 35 40 45
 Glu Leu Asp Leu Arg Leu Ile Ser Leu Cys Ala Gly Asn Gly Asp Leu
 50 55 60
 Ile Ser Cys Gln Thr Ser Arg Ser Ile Glu Ile Ile Phe Arg Leu Thr
 65 70 75 80
 Leu Ala Leu Leu Gln Met Arg Phe Gln Phe Met Ser Cys Tyr Ala Gly
 85 90 95
 Cys Leu Arg Ser Gly Asp Tyr His
 100 105

<210> 8987
 <211> 255
 <212> PRT
 <213> Enterobacter cloacae

<400> 8987
 Val Met Asp Lys Leu Gln Ala Ile Arg Gly Val Ala Phe Asp Leu Asp
 1 5 10 15
 Gly Thr Leu Val Asp Ser Ala Pro Gly Leu Thr Ser Ala Val Asp Gln
 20 25 30
 Ala Leu Tyr Ala Leu Glu Leu Pro Val Ala Gly Glu Glu Arg Val Val
 35 40 45
 Thr Trp Ile Gly Asn Gly Ala Asp Val Leu Met Glu Arg Ala Leu Thr
 50 55 60
 Trp Ala Arg Gln Glu Arg Ala Ser Gln Arg Ser Ala Gln Gly Lys Pro
 65 70 75 80
 Ser Val Asp His Ala Asp Ile Pro Gln Asp Glu Gln Gln Arg Ile Leu
 85 90 95
 Arg Lys Leu Phe Asp Arg Phe Tyr Glu Thr Val Glu Glu Gly Ser
 100 105 110
 Phe Leu Phe Pro Asp Val Ala Glu Thr Leu Ser Ala Leu Tyr Ala Lys
 115 120 125
 Gly Ile Pro Leu Gly Leu Val Thr Asn Lys Pro Thr Pro Phe Val Ala
 130 135 140
 Pro Leu Leu Glu Ala Leu Asp Ile Ala Lys Tyr Phe Ser Val Ile Val
 145 150 155 160
 Gly Gly Asp Asp Val Gln Asn Lys Lys Pro His Pro Glu Pro Leu Leu
 165 170 175
 Leu Val Ala Gly Lys Leu Ser Leu Thr Pro Ala Glu Leu Leu Phe Val
 180 185 190
 Gly Asp Ser Arg Asn Asp Ile Leu Ala Ala Arg Ala Ala Gly Cys Pro
 195 200 205
 Ser Val Gly Leu Thr Tyr Gly Tyr Asn Tyr Gly Glu Ala Ile Thr Leu
 210 215 220
 Ser Glu Pro Asp Val Val Phe Asp His Phe Lys Asp Leu Leu Pro Ala
 225 230 235 240
 Leu Gly Leu Ser His Ser Glu His Gln Glu Leu Asn Asn Asp
 245 250 255

<210> 8988

<211> 167
 <212> PRT
 <213> Enterobacter cloacae

<400> 8988

Asn	Ser	Ala	Lys	Pro	Thr	Val	Lys	Pro	Val	Asn	Thr	Thr	Ala	His	Trp
1				5					10					15	
Met	Cys	Cys	Leu	Pro	Asn	Leu	Ser	Ile	Arg	Val	Val	Ala	Ile	Arg	Cys
			20					25					30		
Ala	Pro	Pro	Gln	Ser	Ala	Ser	Ile	Leu	Pro	Ser	Met	Ala	Pro	Lys	Pro
		35					40					45			
Met	Ile	Ser	Ala	Arg	Leu	Pro	Ser	Val	Pro	Pro	Thr	Pro	Ala	Leu	Met
	50					55					60				
Glu	Leu	Ile	Thr	Leu	Thr	Ser	Gly	Ile	Pro	Cys	Ile	Arg	Pro	Thr	Ala
65					70					75					80
Ser	Ala	Thr	Arg	Thr	Arg	Ala	Ile	Asn	Pro	Phe	Ile	Leu	Lys	Arg	Ile
				85					90					95	
Ile	Lys	Ser	Ser	Asn	Asn	Thr	Thr	Pro	Ile	Ala	Thr	Met	Asn	Asn	Gly
			100					105					110		
Met	Ile	Asp	Leu	Ala	Phe	Glu	Leu	Leu	Trp	Val	Thr	Ser	Leu	Phe	Gln
		115					120					125			
Arg	Gln	Ile	Pro	Val	Val	Pro	Thr	Gly	Asn	Arg	Val	Leu	Thr	Ala	Leu
		130				135					140				
Ile	Leu	Met	Pro	Ala	Lys	Thr	Leu	Ser	Leu	Val	Gly	Cys	Tyr	Lys	Gly
145					150					155					160
Val	Glu	Cys	Pro	Arg	Glu										
					165										

<210> 8989
 <211> 587
 <212> PRT
 <213> Enterobacter cloacae

<400> 8989

Glu	Met	Glu	Asn	Arg	Glu	Thr	Leu	Ser	Ala	Leu	Thr	Arg	Val	Ala	Val
1				5					10					15	
Val	Leu	Ala	Gly	Ala	Leu	Gln	Gly	Val	Ile	Cys	Tyr	Val	Ile	Thr	Trp
			20					25					30		
Tyr	Ile	Glu	Tyr	Ala	Lys	Leu	Pro	Ser	Asp	Thr	Leu	Trp	Leu	Met	Cys
		35					40					45			
Val	Val	Pro	Ala	Thr	Val	Val	Met	Thr	Thr	Thr	Leu	Ser	Leu	Ala	Met
	50					55					60				
Thr	Ser	Phe	Arg	Lys	Pro	Phe	Leu	Trp	Leu	Ser	Leu	Gly	Met	Ile	Gly
65				70						75					80
Ala	Ala	Val	Ala	Gly	Met	Gly	Gly	Trp	Leu	Lys	Trp	Ser	Val	Ala	Gly
				85				90						95	
Leu	Glu	Ser	Trp	Asn	Leu	Arg	Asp	Glu	Met	Leu	Val	Phe	Gly	Phe	His
			100					105					110		
Leu	Leu	Leu	Met	Thr	Leu	Phe	Val	Leu	Pro	Trp	Leu	Gln	Arg	Arg	Leu
		115					120					125			
Asp	Pro	Val	Pro	Thr	Thr	Ser	Phe	Tyr	Ser	Asp	Phe	Tyr	Gln	Arg	Asn
	130					135					140				
Trp	His	Asn	Ala	Leu	Thr	Leu	Leu	Ile	Ile	Phe	Val	Ser	Asn	Gly	Leu
145					150					155					160
Phe	Trp	Leu	Val	Leu	Phe	Leu	Trp	Ala	Glu	Leu	Phe	Glu	Leu	Ile	Gly
				165				170						175	
Ile	Gly	Phe	Phe	Asp	Arg	Leu	Phe	Phe	His	Ser	Asp	Gly	Phe	Ile	Ser
			180					185					190		
Val	Ala	Ile	Gly	Val	Val	Ser	Ala	Ser	Ala	Ala	Val	Leu	Thr	Arg	Met
		195					200					205			
Gln	Val	Arg	Leu	Ile	Leu	Ala	Leu	Gln	Asn	Leu	Leu	Thr	Leu	Ile	Ala

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      210                215                220
Thr Gly Leu Leu Pro Leu Met Ala Ala Leu Ala Leu Leu Phe Ile Gly
225                230                235
Ala Leu Pro Phe Val Gly Phe Glu Ser Ile Ser Ala Arg Ile Ser Ala
      245                250                255
Ala Gly Leu Leu Thr Thr Leu Ala Leu Leu Leu Phe Leu Val Thr
      260                265                270
Ile Val Trp His Pro Gln Arg Gln Thr Leu Pro Tyr Tyr Ala Pro Leu
      275                280                285
Arg Gly Met Ile Arg Leu Ala Val Ala Ile Val Pro Ala Tyr Pro Val
      290                295                300
Leu Ala Gly Trp Ala Leu Trp Leu Arg Ile Ser Gln Tyr Gly Trp Ser
305                310                315
Pro Glu Arg Leu Tyr Gly Val Leu Ile Thr Ile Val Ala Leu Val Trp
      325                330                335
Ala Ile Gly Phe Cys Ala Ser Ala Leu Ile Gln Arg Arg Glu Pro Gln
      340                345                350
Lys Ile His Ala Tyr Val Ile Pro Ala Thr Gly Leu Leu Ser Leu Ile
      355                360                365
Phe Leu Ala Leu Val His Thr Pro Val Leu Asp Pro Trp Arg Ile Ser
      370                375                380
Val Ala Ser His Met Ala Arg Tyr Gln Asp Gly Arg Ile Thr Ala Asp
385                390                395
Gln Val Ser Leu Tyr Met Leu Ser Asn Ala Gly Arg Lys Gly Arg Glu
      405                410                415
Ala Met Leu Thr Leu Gln Asn Asp Pro Gln Phe Ile Ser Asn Pro Lys
      420                425                430
Arg Gln Arg Glu Ile Asn Gly Leu Leu Ser Arg Asn Ala Gly Gly Ala
      435                440                445
Gly Lys Met Thr Ala Ala Met Leu Glu Lys Gln Val Gln Leu Ala Pro
      450                455                460
Gly Met Ala His Pro Asp Lys Thr Leu Trp Gln Ala Met Leu Ser Asn
465                470                475
Gln Tyr Arg Phe Glu Ser Cys Asp Ser Ala Gln Ser Asn Cys Leu Leu
      485                490                495
Met Pro Leu Asp Leu Asn Ser Asp Gly Lys Pro Glu Ala Val Leu Phe
      500                505                510
Gln Phe Thr Asp Arg Thr Ile Val Ala Tyr Thr Gln Thr Asn Thr Gly
      515                520                525
Trp Arg Ile Ala Gly Asp Ala Trp Lys Met Pro Glu Ala Leu Thr Arg
      530                535                540
Gly Glu Leu Asp Arg Ala Leu Arg Gln Arg Lys Val Lys Ser Val Val
545                550                555
Lys Pro Trp Ala Asp Ile Glu Ile Phe Gly Glu Arg Val Asp Met Ser
      565                570                575
Tyr Asp Ser Tyr Asn Asn Ala Gln Trp Arg
      580                585

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<210> 8990

<211> 259

<212> PRT

<213> Enterobacter cloacae

<400> 8990

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Ser Met Ala Phe Lys Thr Trp Gln Thr Gly Ile His Ile Gln Gln Asp
1                5                10                15
Lys Val Val Ala Val Ala Leu Thr Arg Glu Arg Ala Gly Trp Arg Leu
      20                25                30
Arg Arg Trp Trp Ala Val Pro Leu Ser Asp Gly Val Ile Gly Glu Gly
      35                40                45
Lys Ile Leu Lys Pro Glu Glu Leu Val Asn Ala Leu Arg Gly Trp Arg

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50		55		60	
Lys Thr Leu Pro His Ser His Arg Val Phe Leu Ser Phe Pro Ala Thr					
65		70		75	80
Arg Val Leu Gln Arg Ala Leu Pro Arg Pro Ser Val Thr Leu Arg Asp					
	85		90		95
Ser Glu Gln Leu Thr Trp Val Gly Ala Ala Leu Ala Arg Glu Leu Glu					
	100		105		110
Met Pro Ala Asp Thr Leu Cys Phe Asp Tyr Ala Gln Asp Thr Phe Ser					
	115		120		125
Asn Thr Phe Gln Val Thr Ala Ala Gln Asn Arg Glu Val Asp Thr Leu					
	130		135		140
Leu Thr Leu Ala Asn Ala Leu Arg Leu Arg Leu Ala Ala Ile Ala Pro					
145		150		155	160
Asp Ala Gly Ala Leu Ala Asn Leu Leu Ser Ala Val Ala Pro Ala Arg					
	165		170		175
Cys Val Ala Trp Arg Asp Gln His Gln Trp Leu Trp Ala Met Arg His					
	180		185		190
Gln Trp Gly Arg Arg Tyr Thr Thr Glu Ala Ala Thr Val Asn Glu Leu					
	195		200		205
Ala Ala Leu Leu Ala Leu Ser Ser Ser Asp Ile Ala Val Phe Asp Ala					
	210		215		220
Ala Arg Asp Pro Trp Glu Ala Val Thr Leu Cys Gln Pro Pro Leu Pro					
225		230		235	240
Glu Cys Gly Ala Asp Tyr Thr Val Ser Leu Ala Leu Ala Met Ser Glu					
	245		250		255
Ala Pro					

<210> 8991

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 8991

Val Arg Phe Pro Ser Ser His Arg Ala Asn Ser Tyr Ala Ser Ala Cys		
1	5	10
Asn Trp Arg Ser Val Met Arg Ser Lys Ala Arg Leu Val Ile Leu Leu		
	20	25
Ser Pro Leu Phe Leu Thr Gly Met Arg Asp Pro Phe Ser Val Pro Glu		
	35	40
Glu Arg Cys Ser Ala Gly Gln Leu Ser Gln Trp Arg Tyr Gln Gly Ile		
	50	55
Val Ser Gly Ser Arg Asp Ile Gly Leu Met Gln Asp Gly Gln Lys Arg		
65	70	75
Trp His Arg Val Lys Thr Gln Met Arg Leu Pro Thr Gly Trp Arg Val		
	85	90
Ser Ala Ile Asp Arg Gln Gln Leu Thr Val Asp Val Gly Asp Met Cys		
	100	105
Glu Pro Lys Arg Trp Thr Trp Gln Arg Glu Gly Thr Lys Lys Ser Glu		
	115	120
Asp Lys Asp Arg Ala Val Thr Gly Gly Thr Gln Pro Ala Pro Val Gly		
	130	135
Arg Asp Ala Lys Thr Gly His Pro Ala Gly Gly		
145	150	155

<210> 8992

<211> 383

<212> PRT

<213> Enterobacter cloacae

<400> 8992

Cys Pro Gly Gly Ala Asn Ile Thr Gly Ala Gly Ser Ala Gly Gly Ser
 1 5 10 15
 Gln Ser Gly Gly Val Ala Gly Cys Gln Arg Phe Ala Phe Ala Glu Phe
 20 25 30
 Asn Ala Gly Ala Leu Glu Ala Gly Ala Ser Asp Gly Ser Glu Gln Arg
 35 40 45
 Arg Ala Gly Ile Ala Glu Glu Gly Gly Ile Phe Tyr Val His Thr Ala
 50 55 60
 Ala Trp Gln Arg Glu Gln Gln Thr Arg Lys Glu Gln Glu Arg Ala Gln
 65 70 75 80
 Arg Leu Leu Asp Ala Pro Leu His Ser His Ser Ile Pro Phe Ala Tyr
 85 90 95
 Ala Asp Ala Ala Glu Leu Gln Lys Ala Ala Glu Lys Leu Leu Ser Pro
 100 105 110
 Lys Gly Ser Leu Ser Val Asp Lys Arg Thr Asn Arg Phe Leu Val Arg
 115 120 125
 Asp Asn Gln Thr Val Val Asp Met Leu Gln Arg Trp Ala Val Gln Met
 130 135 140
 Asp Leu Pro Val Glu Gln Val Glu Leu Ala Ala Gln Ile Val Thr Ile
 145 150 155 160
 Ser Glu Lys Ser Leu Arg Glu Leu Gly Val Lys Trp Asn Leu Ala Asp
 165 170 175
 Ala Thr Glu Ala Ser Lys Val Gly Gln Val Thr Thr Leu Gly Ala Asp
 180 185 190
 Leu Ser Val Ala Ser Ala Thr Thr His Ala Gly Phe Asn Ile Gly Arg
 195 200 205
 Ile Asn Gly Arg Met Leu Asp Leu Glu Leu Ser Ala Leu Glu Gln Lys
 210 215 220
 Gln Gln Val Asp Ile Ile Ala Ser Pro Arg Leu Leu Ala Ser His Met
 225 230 235 240
 Gln Pro Ala Ser Ile Lys Gln Gly Ser Glu Ile Pro Tyr Gln Val Ser
 245 250 255
 Ser Gly Glu Ser Gly Ala Thr Ser Val Glu Phe Lys Glu Ala Val Leu
 260 265 270
 Gly Met Glu Val Thr Pro Val Val Leu Pro Gly Gly Arg Val Arg Leu
 275 280 285
 Lys Leu His Ile Ser Glu Asn Met Pro Gly Gln Val Leu Gln Gln Ala
 290 295 300
 Asp Gly Glu Thr Leu Ala Ile Asp Lys Gln Glu Ile Glu Thr Gln Val
 305 310 315 320
 Glu Val Lys Ser Gly Glu Thr Leu Ala Leu Gly Gly Ile Phe Ser Gln
 325 330 335
 Lys Asn Lys Thr Gly Arg Asp Ser Val Pro Val Leu Gly Asn Ile Pro
 340 345 350
 Trp Leu Gly Gln Leu Phe Arg His Asp Gly Lys Asp Asn Glu Arg Arg
 355 360 365
 Glu Leu Val Val Phe Ile Thr Pro Arg Leu Val Ser Ile Gln
 370 375 380

<210> 8993

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 8993

Met Asp Glu Phe Lys Pro Glu Asp Glu Leu Lys Pro Asp Pro Ser Asp
 1 5 10 15
 Arg Arg Thr Gly Arg Ser Arg Gln Ser Ser Glu Arg Asp Asn Glu Pro
 20 25 30
 Gln Ile Asn Phe Asp Asp Val Asp Leu Asp Ala Asp Asp Arg Arg Pro
 35 40 45

Ser Arg Ser Arg Asn Ala Arg Asn Glu Arg Glu Asp Glu Glu Phe Glu
 50 55 60
 Ser Glu Glu Glu Leu Met Asp Glu Gln Pro Val Lys Arg Arg Pro Arg
 65 70 75 80
 Lys Arg Lys Lys Ala Val Ala Ala Lys Pro Ala Ser Arg Gln Tyr Ile
 85 90 95
 Met Met Gly Leu Gly Val Leu Val Leu Val Leu Ile Val Gly Ile
 100 105 110
 Gly Ser Ala Leu Lys Ala Pro Ser Thr His Ser Thr Glu Gln Thr Ala
 115 120 125
 Ser Ala Glu Lys Ser Ile Asp Leu Ser Gly Asn Asp Ala Ser Asn Gln
 130 135 140
 Ala Asn Gly Ala Gln Pro Ala Pro Gly Thr Thr Ser Ala Glu Gln Thr
 145 150 155 160
 Ala Gly Asn Thr Ser Thr Gly Gln Asp Ile Ser Leu Pro Pro Val Ser
 165 170 175
 Ser Thr Pro Thr Gln Gly Gln Ala Pro Ala Thr Pro Glu Gly Gln Gln
 180 185 190
 Arg Val Glu Val Gln Gly Asp Leu Asn Asn Ala Leu Met Gln Pro Gln
 195 200 205
 Asn Gln Glu Gln Val Asn Ala Ala Val Val Asn Ser Thr Leu Pro Thr
 210 215 220
 Glu Pro Ala Thr Val Ala Pro Val His Gly Ser Asn Ala Gln Gln Gln
 225 230 235 240
 Thr Thr Ala Thr Glu Thr Lys Pro Arg Gln Thr Gln Thr Ala Pro Arg
 245 250 255
 Gln Glu Arg Lys Gln Ala Val Ile Glu Pro Lys Arg Glu Thr Lys Pro
 260 265 270
 Gln Ala Val Ala Lys Ala Pro Glu Thr Lys Ala Pro Ala Gln Thr Lys
 275 280 285
 Pro Ala Val Ser Gln Pro Val Lys Ala Pro Thr Pro Ala Ala Thr Ala
 290 295 300
 Ala Pro Lys Ala Thr Ala Thr Thr Ala Ala Pro Ala Ala Thr Thr Pro
 305 310 315 320
 Ala Ala Pro Ala Ala Lys Thr Gly Ala Ser Pro Gly Lys Thr Thr Gly
 325 330 335
 Asn Val Gly Ser Leu Gln Ser Ala Ser Ser Ser Asn Tyr Thr Leu Gln
 340 345 350
 Leu Ser Ser Ser Ser Asn Tyr Asp Asn Leu Asn Ala Trp Ala Lys Lys
 355 360 365
 Ser Asn Leu Lys Asn Tyr Val Val Tyr Gln Thr Thr Arg Asn Gly Gln
 370 375 380
 Pro Trp Tyr Val Leu Val Ser Gly Ile Tyr Ala Ser Lys Asp Glu Ala
 385 390 395 400
 Lys Arg Ala Val Ser Thr Leu Pro Ala Asp Val Gln Ala Lys Asn Pro
 405 410 415
 Trp Ala Lys Pro Ile His Gln Val Gln Ala Asp Leu Lys
 420 425 430

<210> 8994

<211> 336

<212> PRT

<213> Enterobacter cloacae

<400> 8994

Ile Met Thr Lys Pro Ile Val Phe Ser Gly Ala Gln Pro Ser Gly Glu
 1 5 10 15
 Leu Thr Ile Gly Asn Tyr Met Gly Ala Leu Arg Gln Trp Val Ser Met
 20 25 30
 Gln Asp Asp Tyr His Cys Ile Tyr Cys Ile Val Asp Leu His Ala Ile
 35 40 45

Thr	Ala	Arg	Gln	Asp	Pro	Glu	Lys	Leu	Arg	Lys	Ala	Thr	Leu	Asp	Thr
50						55					60				
Leu	Ala	Leu	Tyr	Leu	Ala	Cys	Gly	Ile	Asp	Pro	Glu	Lys	Ser	Thr	Ile
65					70					75					80
Phe	Val	Gln	Ser	His	Val	Pro	Glu	His	Ala	Gln	Leu	Gly	Trp	Ala	Leu
				85					90					95	
Asn	Cys	Tyr	Thr	Tyr	Phe	Gly	Glu	Leu	Ser	Arg	Met	Thr	Gln	Phe	Lys
			100					105					110		
Asp	Lys	Ser	Ala	Arg	Tyr	Ser	Glu	Asn	Ile	Asn	Ala	Gly	Leu	Phe	Asp
		115					120					125			
Tyr	Pro	Val	Leu	Met	Ala	Ala	Asp	Ile	Leu	Leu	Tyr	Gln	Thr	Asn	Gln
	130					135					140				
Val	Pro	Val	Gly	Glu	Asp	Gln	Lys	Gln	His	Leu	Glu	Leu	Ser	Arg	Asp
145					150					155					160
Ile	Ala	Gln	Arg	Phe	Asn	Ala	Leu	Tyr	Gly	Asp	Val	Phe	Lys	Val	Pro
				165					170					175	
Glu	Pro	Phe	Ile	Pro	Lys	Ser	Gly	Ala	Arg	Val	Met	Ser	Leu	Leu	Glu
			180					185					190		
Pro	Thr	Lys	Lys	Met	Ser	Lys	Ser	Asp	Asp	Asn	Arg	Asn	Asn	Val	Ile
		195					200					205			
Gly	Leu	Leu	Glu	Asp	Pro	Lys	Ser	Val	Val	Lys	Lys	Leu	Lys	Arg	Ala
	210					215					220				
Val	Thr	Asp	Ser	Asp	Glu	Pro	Pro	Val	Val	Arg	Tyr	Asp	Val	Gln	Asn
225					230					235					240
Lys	Ala	Gly	Val	Ser	Asn	Leu	Leu	Asp	Ile	Leu	Ser	Gly	Val	Thr	Gly
				245					250					255	
Gln	Ser	Ile	Pro	Glu	Leu	Glu	Lys	His	Phe	Glu	Gly	Lys	Met	Tyr	Gly
			260					265					270		
His	Leu	Lys	Gly	Glu	Val	Ala	Asp	Ala	Val	Ser	Gly	Met	Leu	Thr	Glu
		275					280					285			
Leu	Gln	Glu	Arg	Tyr	His	Arg	Tyr	Arg	Asn	Asp	Glu	Ala	Phe	Leu	Gln
	290					295					300				
Lys	Val	Met	Lys	Glu	Gly	Ala	Glu	Lys	Ala	Ser	Ala	Arg	Ala	Ser	Glu
305					310					315					320
Thr	Leu	Thr	Ala	Val	Tyr	Glu	Ala	Ile	Gly	Phe	Val	Ala	Lys	Pro	
				325					330					335	

<210> 8995

<211> 546

<212> PRT

<213> Enterobacter cloacae

<400> 8995

Gly	Ser	Gly	Glu	Val	Arg	Met	Thr	Gln	Val	Asn	Asp	Val	Arg	Asp	Ala
1				5					10					15	
His	Val	Glu	Thr	Thr	Pro	Ala	Pro	Thr	Val	Ser	Pro	Trp	Gln	Pro	Leu
		20						25					30		
Ser	Gln	Pro	Val	Phe	Arg	Met	Leu	Trp	Ile	Ala	Thr	Val	Val	Ser	Asn
		35					40					45			
Val	Gly	Ser	Trp	Met	Ser	Asp	Val	Gly	Ile	Asn	Trp	Ser	Met	Leu	Thr
	50					55					60				
Leu	Ser	Ala	Asp	Pro	Leu	Asp	Ile	Ala	Leu	Val	Gln	Ala	Ala	Ser	Ser
65					70					75					80
Leu	Pro	Met	Phe	Leu	Phe	Ala	Leu	Pro	Ser	Gly	Val	Met	Ala	Asp	Ile
				85					90					95	
Val	Asp	Arg	Arg	Lys	Tyr	Leu	Leu	Phe	Ser	Gln	Leu	Trp	Val	Phe	Ile
			100					105					110		
Ala	Ala	Ala	Gly	Leu	Thr	Leu	Leu	Ser	Phe	Thr	Gly	His	Val	Thr	Pro
		115					120					125			
Thr	Val	Leu	Leu	Val	Ala	Thr	Phe	Leu	Leu	Ser	Val	Gly	Ala	Ala	Met
	130					135						140			

Ser Ser Pro Pro Phe Gln Ala Val Val Pro Asp Leu Val Ser Lys Pro
 145 150 155 160
 Glu Leu Gly Ala Ala Val Ala Leu Asn Ser Leu Gly Val Asn Ile Ser
 165 170 175
 Arg Ala Ile Gly Gly Phe Leu Leu Ser Leu Ala Gly
 180 185 190
 Pro Trp Met Val Phe Ala Leu Asn Ala Leu Ser Val Val Gly Val Ala
 195 200 205
 Trp Val Leu Trp Arg Trp Arg Pro Ala Pro Ser Val Gln Arg Leu Pro
 210 215 220
 Pro Glu His Phe Phe Ser Ala Val Arg Ser Gly Ile Arg Tyr Val His
 225 230 235 240
 Ala Ala Pro Val Leu Arg Asn Val Leu Val Arg Thr Val Ala Phe Phe
 245 250 255
 Val Phe Gly Ser Ala Gly Trp Ala Leu Leu Pro Leu Val Ala Arg Arg
 260 265 270
 Glu Leu Gly Leu Gly Pro Ala Gly Tyr Gly Val Met Leu Ala Cys Ile
 275 280 285
 Gly Leu Gly Ala Ile Ala Gly Ala Ile Leu Leu Pro Arg Leu Arg Gln
 290 295 300
 Arg Leu Asn Ala Asp Arg Leu Met Val Ala Ala Ser Leu Val Phe Ala
 305 310 315 320
 Leu Thr Met Leu Ala Leu Ala Phe Val Arg His Val Trp Leu Leu Asn
 325 330 335
 Leu Phe Glu Phe Phe Thr Gly Phe Ala Trp Ile Ala Val Leu Ser Thr
 340 345 350
 Leu Asn Leu Gly Ala Gln Arg Ser Ala Ala Arg Trp Val Lys Ala Arg
 355 360 365
 Ala Leu Ala Val Tyr Leu Thr Val Phe Phe Gly Ser Met Thr Ala Gly
 370 375 380
 Ser Ala Leu Trp Gly Gln Ile Ala Ser Gln Phe Gly Thr Pro Thr Ser
 385 390 395 400
 Leu Val Val Ala Thr Leu Gly Met Val Leu Ala Ser Ala Thr Val Phe
 405 410 415
 Arg Trp Lys Leu Glu Lys Asp Pro Asp Leu Asn Leu Asp Leu Ser Gly
 420 425 430
 Gln Pro Leu Asp Gly Val Lys Ile Asp Leu Pro Asn Glu Arg Gly Pro
 435 440 445
 Val Leu Val Ser His Glu Tyr Ile Ile Asp Pro His Asn Ala Lys Ala
 450 455 460
 Phe Leu Gln Ala Val His Glu Leu Arg Arg Val Arg Arg Arg Ala Gly
 465 470 475 480
 Ala Met Ser Trp Ala Val Tyr Glu Asp Ile Glu Arg Pro Gly Leu Phe
 485 490 495
 Ile Glu Thr Phe Leu Met Gly Ser Trp Ile Glu His Leu Arg Gln Gln
 500 505 510
 Glu Arg His Thr Met Asn Asp Leu Leu Leu Gln Ser Arg Val Leu Ala
 515 520 525
 Phe His Gln Gly Thr Thr Ser Pro Ala Ile Arg Tyr Leu Val Ala Pro
 530 535 540
 Val
 545

<210> 8996

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 8996

Pro Ser Pro Val Gln Glu His Thr Met Ala Thr Phe Lys Ala Gln Asp
 1 5 10 15

Gly Thr Gln Ile Tyr Tyr Lys Asp Cys Gly Ala Gly Lys Pro Val Leu
 20 25 30
 Phe Ser His Gly Trp Pro Leu Asp Gly Asp Met Trp Asp Ser Gln Leu
 35 40 45
 Asn Tyr Leu Ala Glu Arg Gly Phe Arg Ala Ile Ala Phe Asp Arg Arg
 50 55 60
 Gly Phe Gly Arg Ser Asp Gln Pro Trp Asn Gly Tyr Tyr Tyr Asp Thr
 65 70 75 80
 Phe Ala Ser Asp Ile Asn Asp Leu Ile Thr Thr Leu Asp Leu His Glu
 85 90 95
 Val Met Leu Val Gly Phe Ser Met Gly Gly Gly Asp Val Thr Arg Tyr
 100 105 110
 Ile Asn Asn Tyr Gly Ser Ala Arg Val Ala Gly Leu Ala Leu Leu Gly
 115 120 125
 Ala Val Thr Pro Ile Phe Gly Lys Ser Asp Thr Phe Pro Gln Gly Val
 130 135 140
 Asp Gln Ser Val Phe Asp Gly Ile Arg Asp Gly Leu Arg Lys Asp Arg
 145 150 155 160
 Ala Gln Phe Ile Ser Asp Phe Ala Thr Pro Phe Tyr Gly Ile Asn Ala
 165 170 175
 Gly Gln Thr Val Ser Ala Gly Ala Leu Thr Gln Thr Leu Asn Ile Ala
 180 185 190
 Leu Leu Ala Ser Leu Lys Gly Thr Ile Asp Cys Val Thr Ala Phe Gly
 195 200 205
 Glu Thr Asp Phe Arg Pro Asp Met Ala Lys Ile Asp Val Pro Thr Leu
 210 215 220
 Val Ile His Gly Ser Asn Asp Gln Ile Val Pro Phe Glu Thr Thr Gly
 225 230 235 240
 Lys Leu Ala Ala Glu Met Ile Lys Asn Ala Thr Leu Lys Val Tyr Asp
 245 250 255
 Asn Ala Pro His Gly Phe Ala Leu Thr His Gln Asp Gln Leu Asn Glu
 260 265 270
 Asp Leu Leu Ala Phe Val Lys Ser Leu
 275 280

<210> 8997

<211> 339

<212> PRT

<213> Enterobacter cloacae

<400> 8997

Leu Arg Val Asp Trp Ser Glu Phe Cys Glu His His Arg Lys Thr Thr
 1 5 10 15
 Gly Ser Cys Asn Arg Thr Met Thr Ile Ala Lys Ser Leu Ser Gln Lys
 20 25 30
 Ile Ala Gly Met Lys Thr Ala Trp Tyr Asn Lys Ala Pro Ala Leu Asn
 35 40 45
 Lys Pro Leu Leu Val Leu Tyr Val Leu Ser Gln Tyr Lys Lys Gly His
 50 55 60
 Glu Arg Leu Phe Gln Phe Gln Asp Glu Ile Gln Asp Gln Leu Arg Asp
 65 70 75 80
 Leu Leu Lys Arg Tyr Gly Pro Lys Arg Ser Asn Tyr Glu Val Leu Met
 85 90 95
 Pro Phe Trp Arg Leu Lys His Asp Gly Phe Trp Ala Leu Glu Gly Thr
 100 105 110
 Asp Ser Ala Leu Leu Lys Ser Pro Glu Glu Pro Arg Leu Gln Thr Val
 115 120 125
 Leu Asp Asn Asn Val Arg Gly Phe Asp Val Thr Ser Phe Phe Leu
 130 135 140
 Leu Gln Asn Gln Lys Leu Leu Ile Asp Ser Leu Ala Lys Gln Val Val
 145 150 155 160

Val Gln Tyr Leu Pro Ile Glu Phe His Ser Ala Leu Phe Lys Glu Leu
 165 170 175
 Gly Phe Glu Thr His Glu Pro Phe Glu Val Asn Glu Asn Pro Asn Asp
 180 185 190
 Arg Ile Ala Leu Val Gln Pro Asp Ile Asp Ile Thr Gln Asp Leu
 195 200 205
 Ala Ile Asp Glu Thr Thr Arg Thr Ala Leu Ile Gln Ala Arg Ile Gly
 210 215 220
 Gln Gly Asn Phe Arg Ala Glu Cys Leu Arg Leu Tyr Pro Ala Cys Pro
 225 230 235 240
 Val Thr Gly Ile Thr Phe Gln Pro Leu Leu Arg Ala Ser His Ile Met
 245 250 255
 Pro Trp Ser Ala Cys Gln Thr Ala Lys Glu Arg Leu Asp Pro Tyr Asn
 260 265 270
 Gly Leu Met Leu Ala Ala His Ile Asp Thr Leu Phe Asp Ser Gly Trp
 275 280 285
 Ile Ser Phe Ala Asn Glu Gly Asp Val Leu Ile Ser Asn His Leu Asp
 290 295 300
 Phe Gly Thr Cys Asp Lys Leu Asn Leu Pro Glu Arg Ile Ile Ala Leu
 305 310 315 320
 Pro Lys Pro Ser Tyr Asn Tyr Met Gln Trp His Arg Gln Asn Val Phe
 325 330 335
 Lys Gly

<210> 8998

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 8998

Arg Leu Pro Arg Ala Ala Pro Gly Pro Arg Ala Gly His Gly Gly Arg
 1 5 10 15
 Ala Gly Ala Arg Gly Ala Pro Ser Gly Gly Ala Pro Leu Ala Val Pro
 20 25 30
 Pro Ala Arg His Leu Gln Arg Ile His Gln Pro His Ala Gly Arg Leu
 35 40 45
 Arg Glu Gly Glu Pro Arg His Ser Val Gln Arg Pro Ala Leu Val Leu
 50 55 60
 Arg Pro Cys Gly Asn Arg Tyr Pro Gly Gln His Arg Pro His Gln Arg
 65 70 75 80
 Thr Gly Arg Arg His Cys Arg Pro Ala Pro His Gly Leu Pro Gly Arg
 85 90 95
 Ile Leu Cys Arg Ala Leu Arg His Arg Ser His Pro Pro His Ala Ala
 100 105 110
 Gly Ser Glu Asn Ala Arg Asp Arg Arg Ala Gly Gly Leu Arg Asp Gly
 115 120 125
 Arg His Pro Arg Gly Glu Leu Gln Pro Val Asp Arg Ala Leu Leu Ala
 130 135 140
 Gly Leu Arg Pro His Arg Arg Arg Asp Ala Asp Val Arg Pro Gln Arg
 145 150 155 160
 Pro Ser Gly Pro Arg Tyr Arg Pro Asp Ala Leu Asp Pro Gly Gln Arg
 165 170 175
 Val Val Leu Gln Arg Ala Glu Ser Glu Gly Ala Asp Gln Gly Arg Pro
 180 185 190
 Ala Cys Arg Pro Gly Ser Ala Glu Gln Arg Leu Leu Pro Arg Ala Gly
 195 200 205
 Arg Gly Asp Gln Gly His Arg Val Arg Pro Asp Gly Gly Glu Arg Arg
 210 215 220
 His Arg Leu Arg Arg Arg Gln Leu Trp Pro Ala Arg Ala Ala Gly His
 225 230 235 240

Pro Gly Pro Ala Arg Val Val Pro Gly Gly Glu Gly Ala Gly Ser Leu
 245 250 255
 Pro Gln Arg Ala Ala Ala Gly Arg Pro Arg Gly His Glu Cys Gly Ser
 260 265 270
 Pro Leu Gln Arg Pro Val Arg Gly Ser Gln Pro Pro Ala
 275 280 285

<210> 8999

<211> 393

<212> PRT

<213> Enterobacter cloacae

<400> 8999

Cys Ala Gly Glu Ser Pro Gly Phe Gln Lys Gly Thr Ser Gln Arg Met
 1 5 10 15
 Thr Asp Leu Ala Glu Arg Asp Asp Thr Gln Ala Arg Ala Ala Val Ser
 20 25 30
 Arg Ile Pro Leu Arg Asn Ile Trp Leu Leu Met Leu Tyr Ala Ser Ser
 35 40 45
 Leu Phe Arg His His Gly Arg Ser Met Val Ala Ala Glu Asn Asn Pro
 50 55 60
 Glu Glu Ile Pro Ala Leu Val Ala Arg Ile Leu Leu His Glu Val Glu
 65 70 75 80
 Gln Arg Leu Leu Arg His Leu Ser Met Gly Tyr Gln Thr Arg Arg Ala
 85 90 95
 Thr Leu Asn Arg Val Arg Gly Arg Ile Asp Val Leu Arg Thr Thr Ser
 100 105 110
 Arg Gln Leu Leu Glu Arg Ala Gln Val Ala Cys Gln Phe Gln Glu Met
 115 120 125
 Thr Leu Asp Thr Pro Arg Asn Arg Tyr Val Arg Ser Ala Leu Glu His
 130 135 140
 Leu Val Pro Leu Leu Ser Asn Gly Pro Leu Ala Ala Gln Cys Arg Ala
 145 150 155 160
 Met Ala Ile Asn Leu Arg Arg Arg Gly Ile Glu Gly Gly Met Pro Ser
 165 170 175
 Lys Gly Glu Leu Pro Ser Ile Thr Arg Phe Gly Arg His Asp Ala Ala
 180 185 190
 Asp Lys Ala Met Val Asp Ala Ala Lys Leu Ala Phe Glu Leu Trp Leu
 195 200 205
 Pro Thr Gln Thr Ala Gly Gln Lys Leu Leu Pro Thr Pro Ser Asn Asp
 210 215 220
 Pro Tyr Trp Met Arg Lys Leu Phe Glu Lys Ser Met Ala Gly Phe Tyr
 225 230 235 240
 His Phe His Leu Pro Lys Lys Asp Trp Thr Val Ala Ala Gly Lys Glu
 245 250 255
 Leu Lys Trp Gly Leu Thr Ser Gln Ser Ala Gly Ser Glu Ser Ile Phe
 260 265 270
 Pro Thr Met Asn Ser Asp Ile Ile Leu Glu His Lys Gln Pro Ala Gln
 275 280 285
 Arg Val Ile Ile Asp Thr Lys Phe Asn Asn Ile Leu Thr Lys Gly Trp
 290 295 300
 Tyr Arg Asp Lys Ser Leu Arg Ser Gly Tyr Ile Tyr Gln Ile Tyr Thr
 305 310 315 320
 Tyr Leu Arg Thr Gln Glu Asn Arg Thr Asp Pro Leu Ser Leu Arg Ser
 325 330 335
 Ala Gly Leu Leu Leu His Pro Ala Val Asp Val Met Leu Tyr Glu Phe
 340 345 350
 Val Glu Val Gln Gly His Lys Ile His Phe Ala Thr Val Asp Leu Ala
 355 360 365
 Ala Asp Ala Ala Thr Met Thr Gln Gln Leu Leu Lys Leu Ala Arg Asp
 370 375 380

Cys Cys Gly Ile Thr Asp Val Asn
385 390

<210> 9000

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 9000

Cys	Glu	Phe	Ala	Lys	Gly	Arg	Gly	Arg	Met	Lys	Arg	Lys	Thr	Lys	Val
1				5					10					15	
Thr	Met	Asn	Asp	Ile	Ala	Arg	Ala	Ala	Gly	Val	Ser	Gln	Ala	Thr	Val
			20					25					30		
Ser	Leu	Val	Leu	Asn	Gln	Ser	Arg	Asn	Ile	Lys	Leu	Ser	Asp	Asp	Thr
			35				40					45			
Arg	Gln	Arg	Val	Ile	Gly	Val	Ala	Thr	Glu	Leu	Gly	Tyr	Asp	Arg	Leu
	50					55					60				
Pro	Ala	Val	His	Ala	Pro	Arg	Asn	Gln	Glu	Glu	Ile	Ala	Leu	Leu	Val
65					70					75					80
Ser	Ser	Met	Gln	Ser	Phe	Asp	Pro	Phe	Ile	Asp	Ala	Ile	Ser	Gln	Ala
				85					90					95	
Arg	Glu	Ala	Ala	Trp	Arg	Asn	Glu	Thr	Leu	Leu	Thr	Val	Tyr	Asp	Tyr
			100					105					110		
Gly	Asp	Asp	Ile	Glu	Leu	Ala	Leu	Asn	Ile	Ile	Arg	Gln	Leu	Glu	Lys
		115					120					125			
Arg	Asn	Cys	Ile	Gly	Ile	Val	Leu	Ala	Ser	Pro	Val	Thr	Thr	Leu	Val
	130					135					140				
Asp	Met	Thr	Ala	Phe	Gln	Asp	Cys	Thr	Arg	Ile	Pro	Leu	Val	Leu	Leu
145					150					155					160
Asn	Gln	Arg	Asp	Pro	Gly	Ser	Pro	Leu	Leu	Pro	Ser	Phe	Ile	Pro	Asp
				165					170					175	
Asp	Tyr	Ala	Asn	Ala	Phe	Gln	Val	Thr	Lys	His	Leu	Ile	Ala	Cys	Gly
			180					185					190		
Ala	Thr	Arg	Ile	Ala	His	Ile	Thr	Gly	Glu	Ser	Trp	Met	Glu	Ala	Ser
			195				200					205			
Arg	Gln	Arg	Leu	Ala	Gly	Tyr	Gln	Ala	Ala	Leu	Gln	Gln	Ala	Gly	Leu
	210					215						220			
Ala	Cys	Asp	Asp	Gly	Leu	Val	Arg	Gln	Thr	Asn	Trp	Gln	Phe	Ser	Glu
225					230					235					240
Ser	Phe	Thr	Ala	Thr	Ser	Leu	Leu	Glu	Leu	Ala	Glu	Arg	Pro	Asp	
				245					250				255		
Ala	Ile	Phe	Cys	Ala	Ser	Asp	Trp	Leu	Ala	Ile	Gly	Cys	Tyr	Gln	Ala
			260					265					270		
Leu	Ala	Val	Asn	Gly	Val	Arg	Ile	Pro	Gln	Asp	Met	Leu	Leu	Ala	Gly
		275					280					285			
Tyr	Asp	Asp	Gln	Lys	Ile	Ser	Glu	Gln	Leu	Thr	Pro	Pro	Leu	Thr	Ser
	290					295					300				
Ile	Gln	Leu	Pro	Tyr	Ser	Glu	Leu	Gly	Arg	Leu	Ala	Val	Glu	Tyr	Leu
305					310					315					320
Cys	Asn	Gln	Glu	Asp	Ala	Ala	Thr	His	Val	Thr	Leu	Ala	Gly	Arg	Leu
				325					330					335	
Lys	Val	Arg	Ala	Ser	Ser	Leu	Val								
			340												345

<210> 9001

<211> 206

<212> PRT

<213> Enterobacter cloacae

<400> 9001

Met Glu His Ile Val Tyr Val Val Asp Asp Asp Asp Thr Val Arg Gln

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1           5           10           15
Ser Val Val Arg Leu Leu Glu Ser Ala Asp Met His Ala Leu Gly Phe
20           25           30
Ser Ser Ala Glu Ala Phe Leu Ser His Pro Phe Glu Asp Leu Pro Ser
35           40           45
Cys Val Ile Leu Asp Met Gln Met Pro Thr Ile Thr Gly Phe Asp Val
50           55           60
Ala Asp Ala Leu Lys Ala Ser Gly Arg Glu Ile Pro Ile Ile Phe Leu
65           70           75           80
Thr Gly His Gly Thr Ile Pro Met Ser Val Arg Ala Ile Lys Gly Gly
85           90           95
Ala Tyr Glu Phe Leu Thr Lys Pro Val Glu Ser Ser Ala Leu Ile Gly
100          105          110
Ser Ile Glu Ser Ala Leu Arg Leu Ala Gln His Asn Ala Ala Arg Val
115          120          125
Lys Glu His Tyr Ala Leu Lys Gln Arg His Met Ser Leu Thr Pro Arg
130          135          140
Glu Asn Glu Val Leu Glu Leu Ala Ile Ser Gly Lys Leu Asn Lys Gln
145          150          155          160
Ile Ala Ala Glu Leu Gly Val Ser Glu Ile Thr Val Lys Val His Arg
165          170          175
Arg Arg Val Met Glu Lys Met Gln Val Arg Ser Val Ala Glu Leu Val
180          185          190
Arg Ala Val Glu Arg Leu Thr Lys His Gln Pro Val Glu
195          200          205

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<210> 9002

<211> 628

<212> PRT

<213> Enterobacter cloacae

<400> 9002

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Ser Gly Ala Leu Met Val Thr Leu Gly Lys Ala Asp Leu Ile Leu Val
1           5           10           15
Asn Gly Gln Phe His Thr Val Asp Arg Glu Asn Pro Leu Ala Glu Ala
20           25           30
Val Ala Val Arg Asp Gly Lys Phe Leu Glu Val Gly Thr Val Ala Glu
35           40           45
Val Met Gln His His Gly Asp Gly Thr Lys Val Val Asp Leu Lys Gly
50           55           60
His Thr Ala Ile Pro Gly Leu Asn Asp Ser His Leu His Leu Ile Arg
65           70           75           80
Gly Gly Leu Asn Tyr Asn Leu Glu Leu Arg Trp Glu Gly Val Pro Ser
85           90           95
Leu Ala Asp Ala Leu Arg Met Leu Lys Glu Gln Ala Leu Arg Thr Pro
100          105          110
Ser Pro Gln Trp Val Arg Val Val Gly Gly Trp Ser Glu Phe Gln Phe
115          120          125
Ala Glu Arg Arg Met Pro Thr Leu Asp Glu Ile Asn Asp Ala Ala Pro
130          135          140
Asp Thr Pro Val Phe Ile Leu His Leu Tyr Asp Arg Ala Leu Leu Asn
145          150          155          160
Arg Ala Ala Leu Lys Val Val Gly Tyr Thr Lys Glu Thr Pro Asn Pro
165          170          175
Pro Gly Gly Glu Ile Gln Arg Asp Ala Asn Gly Asn Pro Thr Gly Met
180          185          190
Leu Ile Ala Arg Pro Asn Ala Met Ile Leu Tyr Ala Thr Leu Ala Lys
195          200          205
Gly Pro Lys Leu Pro Leu Glu Gln Gln Val Asn Ser Thr Arg Gln Phe
210          215          220
Met Arg Glu Leu Asn Arg Leu Gly Leu Thr Ser Ala Ile Asp Ala Gly

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225 230 235 240
 Gly Gly Phe Gln Asn Tyr Pro Glu Asp Tyr Glu Val Ile Ala Glu Leu
 245 250 255
 His Glu Lys Lys Gln Met Thr Ile Arg Ile Ala Tyr Asn Leu Phe Thr
 260 265 270
 Gln Arg Pro Gly His Glu Leu Glu Asp Phe Glu Lys Trp Thr Asp Met
 275 280 285
 Leu Thr Pro Gly Gln Gly Ser Asp Phe Phe Arg Gln Asn Gly Ala Gly
 290 295 300
 Glu Met Leu Val Phe Ser Ala Ala Asp Phe Glu Asp Phe Leu Glu Pro
 305 310 315 320
 Arg Pro Asp Leu Ala Pro Gly Met Glu Asp Glu Leu Glu Arg Val Val
 325 330 335
 Arg His Leu Val Glu His Arg Trp Pro Phe Arg Leu His Ala Thr Tyr
 340 345 350
 Asn Glu Ser Ile Ser Arg Met Leu Asp Val Phe Glu Lys Val Asn Arg
 355 360 365
 Asp Ile Pro Phe Asn Gly Leu His Trp Phe Phe Asp His Ala Glu Thr
 370 375 380
 Val Thr Gln Ala Asn Ile Asp Arg Ile Lys Glu Leu Gly Gly Gly Ile
 385 390 395 400
 Ala Val Gln His Arg Met Ala Phe Gln Gly Glu Tyr Phe Ala Glu Arg
 405 410 415
 Tyr Gly Ile Glu Ala Thr Arg His Thr Pro Pro Val Ala Lys Met Leu
 420 425 430
 Glu Thr Gly Val Pro Val Gly Leu Gly Thr Asp Ala Thr Arg Val Ala
 435 440 445
 Ser Tyr Asn Pro Trp Thr Ala Leu Tyr Trp Leu Val Ser Gly Arg Thr
 450 455 460
 Val Gly Gly Met Gln Met Tyr Asp His Ser Ala Arg Leu Asp Arg Asp
 465 470 475 480
 Thr Ala Leu Met Leu Trp Thr Gln Gly Ser Ala Trp Phe Ser Ser Glu
 485 490 495
 Gln Asn Gln Lys Gly Gln Ile Lys Val Gly Gln Leu Ala Asp Leu Ala
 500 505 510
 Val Leu Ser Lys Asp Tyr Phe Arg Val Pro Glu Glu Glu Ile Lys Gly
 515 520 525
 Ile Glu Ser Val Leu Thr Val Val Asn Gly Asp Ile Val Tyr Ala Ala
 530 535 540
 Gly Ser Phe Gly Pro Leu Ala Pro Pro Ala Ile Pro Val Leu Pro Glu
 545 550 555 560
 Trp Ser Pro Val Val Lys Val Pro Gly His Tyr Arg Ser Ala Pro Pro
 565 570 575
 Gln Ala Ala Arg Val Gly Met Ser Val Ala His His Cys Ser Gly Pro
 580 585 590
 Cys Gly Val His Ser His Gln His Asp Phe Ala Arg Thr Ser Ala Met
 595 600 605
 Pro Val Ser Asp Asp Asn Ala Phe Trp Gly Ala Leu Gly Cys Ser Cys
 610 615 620
 Phe Ala Phe
 625

<210> 9003

<211> 676

<212> PRT

<213> Enterobacter cloacae

<400> 9003

Leu Phe Thr Gln Ala Tyr Asn Pro Val Lys Phe Ile Arg Gln Val Thr
 1 5 10 15
 Glu Ala Cys Asn Phe Thr Gly Glu His Met Asp Ala Val Glu Gln Asp

			20				25				30					
Val	Arg	Phe	Glu	Trp	Ala	Asp	Phe	Tyr	Gln	Ala	Phe	Ala	Ser	Gln	Leu	
		35					40					45				
Leu	Thr	Trp	Arg	Asn	Arg	Arg	Glu	Glu	Leu	Val	Ala	Gly	Ile	His	Arg	
	50				55					60						
Ile	Ala	Ala	Glu	Ile	Gly	Ser	Met	Ser	His	Leu	Gln	Asp	Lys	Pro	Ala	
65					70				75					80		
Asn	Gly	Val	Pro	His	Pro	Leu	Lys	Asp	Ile	Cys	Pro	Phe	Thr	Thr	Met	
				85					90					95		
Gly	Leu	Phe	Asn	Arg	Ser	Leu	Thr	Val	Thr	Asn	Arg	Arg	Asn	Ile	Ala	
			100					105					110			
Ala	Ser	Leu	Ala	Lys	Leu	Ile	Gly	Val	Arg	Glu	Lys	Val	Pro	Glu	Ser	
		115					120					125				
Phe	Asp	Gly	Ile	Pro	Leu	Leu	Asn	Asn	Gln	Lys	Ser	Trp	Phe	Phe	Gly	
	130				135					140						
Tyr	Glu	Lys	Ser	Arg	Lys	Pro	Glu	Asp	Ile	Asp	Thr	Leu	Trp	Glu	Met	
145					150				155					160		
Phe	Ser	Gln	Ala	Ile	Ser	Phe	Ala	Asp	Thr	Pro	Asn	Ala	Asp	Pro	Ala	
				165					170					175		
Asp	Phe	Leu	Phe	Ser	Tyr	Asp	Ala	Ala	Ser	Asn	Val	Arg	Asn	Val	Gly	
			180				185						190			
Trp	Asn	Leu	Thr	Met	Gly	Leu	Tyr	Trp	Leu	Arg	Pro	Trp	Phe	Tyr	Pro	
	195						200					205				
Thr	Leu	Asp	Ser	Gln	Ser	Gln	Tyr	Tyr	Ile	Gln	Lys	Val	Leu	Asn	Ile	
	210					215					220					
Lys	Ile	Ile	Lys	Lys	Gly	Ala	Lys	Gly	Arg	Cys	Ser	Gly	His	Asn	Tyr	
225					230				235					240		
Gln	Ala	Val	Ala	Leu	Ala	Leu	Lys	Lys	Ala	Phe	Thr	Gln	Pro	Asn	Tyr	
			245						250					255		
Pro	Val	His	Ser	Phe	Pro	Glu	Leu	Ser	Leu	Ala	Ala	Trp	Asn	Ile	Asp	
			260				265						270			
Leu	Gln	Gln	Ser	Asn	Asp	Glu	Val	Glu	Arg	Leu	Thr	Trp	Lys	Ala	Tyr	
		275				280						285				
Leu	Leu	Asn	Lys	Ile	Lys	Val	Leu	Cys	Leu	Arg	Lys	Asp	Ser	Pro	Phe	
	290					295					300					
Phe	Ser	Leu	Arg	Glu	Leu	Lys	Glu	Ala	Tyr	Leu	Asp	Glu	Ile	Lys	Ala	
305					310					315				320		
Asp	Tyr	Pro	Asn	Asn	Asn	Thr	Ile	Glu	Ser	Ser	Ile	Ser	Tyr	Tyr	Leu	
			325					330						335		
Gln	Lys	Leu	Arg	Asp	Asp	Asp	Glu	Leu	Glu	Phe	Gln	Thr	Pro	Gly	Asn	
			340				345						350			
Tyr	Glu	Tyr	Leu	Asn	Phe	Asp	Lys	Gly	Glu	Leu	Gln	Ser	Ile	Thr	Glu	
		355				360						365				
Glu	Thr	Val	Glu	Glu	Asn	Val	Pro	Ala	Glu	Ile	Pro	His	Lys	Pro	Tyr	
	370					375										

Thr Leu Met Glu Ala Asp Lys Arg Thr Pro Asn Glu Ala Leu Glu Leu
 515 520 525
 Ser Tyr Arg Ser Asp Met His Glu Lys Thr Tyr Ile Pro Glu Asn Leu
 530 535 540
 Tyr Ile Ile Gly Thr Met Asn Ile Ala Asp Arg Ser Leu Ala Leu Leu
 545 550 555 560
 Asp Leu Ala Leu Arg Arg Arg Phe Ala Phe Ile Asp Leu Lys Pro Glu
 565 570 575
 Phe Asn Asp Ala Trp Lys Lys Trp Val Asn Gln Arg Phe Asn Val Ser
 580 585 590
 Leu Glu Thr Leu Ala Leu Ile Glu Ser Lys Leu Thr Ala Leu Asn Glu
 595 600 605
 Lys Leu Ser Arg Asp Ala Ala Leu Gly Pro Gln Phe Cys Ile Gly His
 610 615 620
 Ser Tyr Val Thr Pro Pro Ala Gly Leu Lys Ile Asp Asp Gly Met Ala
 625 630 635 640
 Trp Tyr Glu Gln Val Val Glu Thr Glu Ile Cys Pro Leu Leu Ala Glu
 645 650 655
 Tyr Trp Phe Asp Ala Pro Glu Lys Val Gln Asp Ser Arg Lys Glu Leu
 660 665 670
 Leu Ser Val
 675

<210> 9004

<211> 338

<212> PRT

<213> Enterobacter cloacae

<400> 9004

Gly Val Phe Met Asn Ala Pro Thr Ile Leu Thr Gly Asp Arg Pro Thr
 1 5 10 15
 Gly Pro Leu His Leu Gly His Phe Val Gly Ser Leu Arg Gln Arg Val
 20 25 30
 Ala Leu Gln Gln Thr His Ser Gln Phe Val Leu Ile Ala Asp Leu Gln
 35 40 45
 Gly Leu Thr Asp Asn Gly Ser Asn Pro Gln Lys Ile Arg Asp Asn Ile
 50 55 60
 Pro Glu Val Leu Ala Asp Tyr Leu Ala Ala Gly Ile Asp Pro Asn Leu
 65 70 75 80
 Thr Thr Ile Cys Leu Gln Ser Ala Leu Pro Ala Leu Ala Asp Leu Thr
 85 90 95
 Met Leu Tyr Met Asn Ile Val Thr Val Ala Arg Val Glu Arg Asn Pro
 100 105 110
 Thr Val Lys Asn Glu Ile Ala Gln Lys Gly Phe Ala Arg Ser Leu Pro
 115 120 125
 Val Gly Phe Met Ala Tyr Pro Ile Ser Gln Ala Ala Asp Ile Thr Ala
 130 135 140
 Phe Lys Ala Glu Cys Val Pro Val Gly Asp Asp Gln Leu Pro Met Ile
 145 150 155 160
 Glu Gln Thr Asn Glu Ile Val His Lys Met Asn Ser Leu Leu Pro Ala
 165 170 175
 Pro Val Leu Arg His Cys Lys Ala Met Leu Ser Asp Thr Ser Arg Leu
 180 185 190
 Pro Gly Ile Asp Gly Ser Ala Lys Met Ser Lys Ser Leu Gly Asn Thr
 195 200 205
 Leu His Leu Ser Ala Ser Glu Glu Thr Ile His Arg Ala Val Ser Ala
 210 215 220
 Met Tyr Thr Asp Pro Asn His Leu Lys Val Ser Asp Pro Gly Gln Ile
 225 230 235 240
 Glu Gly Asn Val Val Phe Thr Tyr Leu Asp Ala Phe His Pro Asp Lys
 245 250 255

Asp Lys Val Ala Ala Met Lys Ala His Tyr Gln Ala Gly Gly Leu Gly
 260 265 270
 Asp Arg Val Cys Lys Asn Glu Leu Glu Gly Cys Leu Gln Glu Leu Ile
 275 280 285
 Ala Pro Met Arg Glu Arg Arg Ala Met Tyr Met Arg Asp Arg Gly Glu
 290 295 300
 Leu Met Ala Met Leu Lys Arg Gly Thr Glu Arg Ala Gln Gly Val Thr
 305 310 315 320
 Gln Glu Thr Leu Arg Glu Val Lys Val Gly Leu Gly Val Pro Val Phe
 325 330 335
 Ser

<210> 9005

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 9005

Lys Gly Val Gly Ser Asp Arg His Val Arg Cys Glu Asn Ala Arg Ile
 1 5 10 15
 Gly Pro Asp Gln Gly Pro Glu Phe Thr Cys Arg Ala Leu Asp Arg Trp
 20 25 30
 Ala Cys Glu His Gly Val Asp Leu Arg Leu Ile Gln Pro Gly Asn Pro
 35 40 45
 Thr His Asn Gly Phe Ile Glu Ser Phe Asn Gly Arg Phe Arg Asp Glu
 50 55 60
 Cys Leu Asn Glu His Trp Phe Ser Asp Ile Val His Ala Arg Lys Ile
 65 70 75 80
 Ile Asn Asp Trp Arg Gln Asp Tyr Asn Glu Cys Arg Pro His Ser Thr
 85 90 95
 Leu Asn Tyr Gln Thr Pro Ser Glu Phe Ala Ala Gly Trp Arg Lys Gly
 100 105 110
 His Ser Glu Asn Glu Asp Ser Asp Val Thr Asn
 115 120

<210> 9006

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 9006

Arg Arg Pro Asn Pro Ala Ala His Arg Leu Arg Val Ala Pro Ala Ala
 1 5 10 15
 Gly Arg Gly Gly Arg Asp Val Leu Pro Ala Ser Ala Gly Pro Asp Arg
 20 25 30
 Ala Gly Ala Leu Gly Arg Gly Glu Leu Pro Arg Leu His Pro His Gly
 35 40 45
 Ala Asp Asp Gly Asp Tyr Pro Ala Ala Ala Thr Ala Arg Thr Thr Ala
 50 55 60
 Val Leu Tyr Arg Met Ala Gly Ala Pro Arg Gly Gln His His Arg Arg
 65 70 75 80
 Ala Ala Pro Ala Asp Val Arg Gly Glu Gly Arg Ala Val Pro Val Gly
 85 90 95
 Ala Gly Ala Arg Gln Asn Pro Asp Val Ala Ala Val Ala Gly Gly Asp
 100 105 110
 Glu Gly Val His Gly Leu Leu Pro Pro Leu Val Pro Arg Val Arg
 115 120 125
 Gly Glu Arg Tyr Pro Val Phe Thr Arg
 130 135

<210> 9007
 <211> 385
 <212> PRT
 <213> Enterobacter cloacae

<400> 9007

Ser	Arg	Leu	Phe	Thr	Leu	Ser	Leu	Val	Leu	Thr	Met	Ala	Tyr	Gln	Leu
1				5					10					15	
Asn	Leu	Asn	Trp	Pro	Glu	Phe	Leu	Glu	Lys	Tyr	Trp	Gln	Lys	Gln	Pro
		20						25					30		
Val	Val	Leu	Lys	Asn	Ala	Phe	Pro	Asn	Phe	Val	Asp	Pro	Ile	Thr	Pro
		35					40					45			
Asp	Glu	Leu	Ala	Gly	Leu	Ala	Met	Glu	Pro	Glu	Val	Asp	Ser	Arg	Leu
	50					55					60				
Val	Ser	His	Ala	Asn	Gly	Lys	Trp	Gln	Ala	Ser	Asn	Gly	Pro	Phe	Glu
65				70						75					80
His	Phe	Asp	Asn	Leu	Gly	Glu	Thr	Gly	Trp	Ser	Leu	Leu	Ala	Gln	Ala
			85					90						95	
Val	Asn	His	Trp	His	Lys	Pro	Ala	Ala	Glu	Leu	Val	Arg	Pro	Phe	Arg
			100					105					110		
Val	Leu	Pro	Asp	Trp	Arg	Leu	Asp	Asp	Leu	Met	Ile	Ser	Phe	Ser	Val
		115					120						125		
Pro	Gly	Ser	Gly	Val	Gly	Pro	His	Ile	Asp	Gln	Tyr	Asp	Val	Phe	Ile
	130					135					140				
Ile	Gln	Gly	Met	Gly	Ser	Arg	Arg	Trp	Arg	Val	Gly	Asp	Lys	Leu	Pro
145					150					155					160
Met	Arg	Gln	Phe	Cys	Pro	His	Pro	Ala	Leu	Leu	His	Val	Asp	Pro	Phe
			165						170					175	
Glu	Pro	Ile	Ile	Asp	Glu	Asp	Leu	Ala	Pro	Gly	Asp	Ile	Leu	Tyr	Ile
			180					185					190		
Pro	Pro	Gly	Phe	Pro	His	Asp	Gly	Phe	Thr	His	Glu	Thr	Ala	Leu	Asn
		195					200					205			
Tyr	Ser	Val	Gly	Phe	Arg	Gly	Pro	Asn	Gly	Arg	Asp	Leu	Ile	Ser	Ser
	210					215					220				
Phe	Ala	Asp	Tyr	Ala	Leu	Glu	Asn	Asp	Leu	Gly	Gly	Glu	His	Tyr	Ser
225					230					235					240
Asp	Pro	Asp	Leu	Thr	Cys	Arg	Glu	His	Pro	Gly	Arg	Val	Glu	Gln	Tyr
			245						250					255	
Glu	Leu	Asp	Arg	Ile	Arg	Glu	Met	Met	Ile	Asp	Met	Ile	Ser	Lys	Pro
			260					265					270		
Asp	Asp	Phe	Thr	Lys	Trp	Phe	Gly	Ser	Phe	Val	Ser	Thr	Pro	Arg	His
		275					280					285			
Glu	Leu	Asp	Ile	Ala	Ala	Ala	Glu	Pro	Pro	Tyr	Ser	Ala	Glu	Glu	Val
		290				295					300				
Leu	Asp	Ala	Leu	Gln	Gly	Gly	Glu	Thr	Leu	Ser	Arg	Leu	Ser	Gly	Leu
305					310					315					320
Arg	Val	Leu	Asn	Val	Asn	Gly	Ser	Phe	Phe	Ile	Asn	Ser	Glu	Gln	Leu
			325						330					335	
Glu	Thr	Ala	Asp	Val	Asn	Gly	Ala	Asp	Ala	Leu	Cys	Arg	Tyr	Thr	Glu
			340					345					350		
Leu	Gly	Gln	Ala	Glu	Leu	Gly	Asp	Ala	Leu	Asn	Asn	Pro	Ala	Phe	Val
		355					360					365			
Asp	Glu	Leu	Thr	Gly	Leu	Ile	Asn	Gln	Gly	Tyr	Trp	Tyr	Phe	Asp	Glu
	370					375					380				

385

<210> 9008
 <211> 172
 <212> PRT
 <213> Enterobacter cloacae

<400> 9008

Asn	Ala	Arg	Ser	Asn	Arg	Met	Ala	Val	Pro	Val	His	Leu	Phe	Leu	Thr
1				5					10					15	
Asn	Asp	Gly	Gly	Thr	Met	Ile	Cys	Gly	Ser	Cys	Asp	Val	Ala	Gln	Arg
			20					25					30		
Glu	Gly	Ser	Ile	Glu	Leu	Arg	Gly	Leu	Gln	His	Asn	Leu	Ser	Leu	Pro
		35					40					45			
Thr	Asp	Ser	Ala	Thr	Gly	Lys	Val	Thr	Gly	Thr	Arg	Gln	His	Ser	Pro
	50					55					60				
Phe	Gln	Phe	Thr	Lys	Glu	Leu	Asp	Ser	Ser	Ser	Pro	Tyr	Leu	Phe	Lys
65					70					75					80
Ala	Ala	Ala	Thr	Gly	Gln	Thr	Leu	Lys	Thr	Ala	Glu	Phe	Arg	Phe	Tyr
				85					90					95	
His	Ile	Asn	Tyr	Ser	Gly	Gln	Glu	Glu	Glu	Tyr	Tyr	Arg	Ile	Thr	Leu
		100					105						110		
Glu	Asn	Val	Lys	Val	Ile	Ser	Val	Ser	Pro	Val	Met	Tyr	Asp	Thr	Arg
	115						120					125			
Gly	Cys	Pro	Gly	Thr	Gly	His	Met	Glu	Glu	Val	Ala	Phe	Asn	Tyr	Glu
	130					135					140				
Lys	Ile	Thr	His	Leu	Tyr	Lys	Asp	Gly	Asn	Leu	Ala	His	Asp	Ala	
145					150					155					160
Trp	Asn	Glu	Arg	Pro	Thr	Ser	Gly	Ser	Ala	Ala					
				165					170						

<210> 9009

<211> 371

<212> PRT

<213> Enterobacter cloacae

<400> 9009

Ile	Leu	Ser	Val	Arg	Gly	Arg	Val	Met	Lys	Glu	Gln	Trp	Ser	Arg	Glu
1				5					10					15	
Gln	Ala	Gln	Ala	Trp	Tyr	Gln	Gln	Lys	Gly	Trp	Leu	Cys	Gly	Phe	Asn
			20					25					30		
Tyr	Leu	Pro	Ser	Thr	Ala	Val	Asn	Trp	Thr	Asp	Ile	Trp	Gln	Ala	Glu
		35					40					45			
Thr	Phe	Asp	Ala	Ala	Thr	Ile	Glu	Arg	Glu	Leu	Gly	Trp	Ala	Ala	Asp
	50					55					60				
Ala	Gly	Tyr	Asn	Thr	Leu	Arg	Ile	Asn	Leu	Pro	Phe	Ile	Val	Trp	Glu
65					70					75					80
His	Asp	Arg	Asp	Gly	Leu	Met	Ala	Arg	Ile	Asp	Arg	Phe	Leu	Thr	Ile
				85					90					95	
Ala	Asp	Asp	Arg	Gly	Phe	Ser	Thr	Met	Leu	Thr	Leu	Met	Asp	Asp	Cys
			100					105					110		
Gly	Phe	Ser	Gly	Asp	Glu	Pro	Tyr	Leu	Gly	Pro	Gln	Lys	Pro	Pro	Val
		115					120					125			
Pro	Gly	Lys	His	Asn	Ser	Gln	Ala	Ala	Ala	Ser	Pro	Gly	Arg	Asp	Lys
	130					135						140			
Val	Cys	Asp	Pro	Asp	Cys	Trp	Ala	Asp	Ile	Glu	Arg	Tyr	Ile	Arg	Asp
145					150					155					160
Val	Val	Arg	Gln	Phe	Arg	Glu	Asp	Lys	Arg	Val	Leu	Leu	Trp	Asp	Leu
				165					170					175	
Tyr	Asn	Glu	Pro	Gly	Asn	Arg	Gly	Ile	Phe	Ala	Thr	Gly	Thr	Gln	Glu
		180					185						190		
Val	Gln	Tyr	Asp	Ala	Lys	Leu	Glu	Ser	Cys	Ala	His	Glu	Leu	Met	Lys
		195					200					205			
Leu	Ala	Phe	Gln	Trp	Val	Arg	Glu	Glu	Asp	Pro	Thr	Gln	Pro	Leu	Thr
	210					215						220			
Cys	Ala	Trp	Arg	Leu	Pro	Pro	Glu	Glu	Glu	Gly	Glu	Thr	Phe	Phe	
				230					235						240

Gln His Pro Leu Asp Gln Thr Ala Leu Ala Leu Ser Asp Val Val Ser
 245 250 255
 Phe His Ala Tyr Thr His Thr Gly Arg Met Thr Ala Ile Ile Gln Gln
 260 265 270
 Leu Gln Gln Leu Gly Arg Pro Leu Phe Cys Thr Glu Trp Leu Ala Arg
 275 280 285
 His Val Gly Ser Thr Ile Glu Glu Gln Leu Pro Leu Met Tyr Ala Ala
 290 295 300
 Lys Val Ala Pro Tyr Gln Trp Gly Leu Val Arg Gly Lys Thr Gln Thr
 305 310 315 320
 Trp Leu Pro Trp Pro Val Val Met Lys Glu Ser Thr Asp Tyr Cys Arg
 325 330 335
 Leu Trp Phe His Asp Val Phe Glu Glu Asn Gly Ile Pro Phe Ser Arg
 340 345 350
 Ala Glu Ile Ala Leu Met Lys Lys Leu Arg Lys Ile Ala Pro Asp Pro
 355 360 365
 Gln Gly
 370

<210> 9010

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 9010

Arg Pro Gly Ala Leu Ser Pro Gly Asn Gln Val Arg Thr Met Ala Thr
 1 5 10 15
 Thr Met Lys Ile Pro Ser Arg Glu Leu Trp Ser Tyr Phe Gly Tyr Gly
 20 25 30
 Leu Gly Gln Cys Phe Ser Phe Gly Leu Val Gly Ser Phe Ile Asn Tyr
 35 40 45
 Phe Tyr Thr Asp Val Leu Gly Ile Ser Ala Leu Ala Ala Ser Thr Ile
 50 55 60
 Phe Leu Ile Ala Arg Ala Trp Asp Ala Val His Asp Pro Leu Phe Ala
 65 70 75 80
 Ser Ile Met Asp Thr Ile Asn Ser Arg Phe Gly Lys Phe Arg His Phe
 85 90 95
 Leu Leu Ile Ala Pro Leu Leu Ile Thr Gly Val Thr Leu Leu Ser Phe
 100 105 110
 Tyr Lys Ile Glu Ala Asp Met Thr Thr Lys Ile Leu Tyr Ala Gly Val
 115 120 125
 Thr Tyr Ile Leu Trp Gly Thr Leu Tyr Ala Ile Ser Asp Ile Pro Phe
 130 135 140
 Trp Ser Met Ser Ser Val Met Thr Asn Asp Ser Ala Gln Arg Thr Arg
 145 150 155 160
 Ala Val Thr Ala Ala Met Leu Gly Val Asn Ala Gly Ile Ala Cys Ala
 165 170 175
 Asn Ile Phe Phe Pro Lys Leu Ala Ala Phe Phe Ala Gln Tyr Ser Asn
 180 185 190
 Asp Lys Gly Tyr Phe Met Ala Ala Leu Val Met Met Leu Val Gly Leu
 195 200 205
 Pro Leu Met Leu Asn Gly Phe Met Gln Ile Lys Glu Arg Val Pro Pro
 210 215 220
 Ser Pro Glu Lys Val Thr Ile Arg Asp Thr Phe His Asn Leu Arg Gln
 225 230 235 240
 Asn Lys Pro Leu Phe Ile Val Leu Leu Ser Phe Phe Phe Cys Val Phe
 245 250 255
 His Asn Val Ala Gly Gly Leu Tyr Ile Tyr Phe Phe Ile Asn Asn Met
 260 265 270
 Gly Asp Gly Ser Leu Gln Met Ala Ile Gly Val Met Gly Ile Val Ala
 275 280 285

Ala Val Leu Cys Leu Val Ala Pro Met Leu Thr Arg Arg Met Gln Lys
 290 295 300
 Arg Lys Leu Phe Met Ile Leu Cys Gly Leu Asp Val Ala Val Arg Val
 305 310 315 320
 Val Met Trp Phe Thr Gly Tyr Gln His Thr Ala Leu Leu Phe Ile Leu
 325 330 335
 Leu Gly Leu Ser Thr Leu Phe Val Met Met Thr Asn Ile Leu Thr Ser
 340 345 350
 Ser Met Ile Ala Asp Thr Ile Glu Tyr Ala Glu Tyr His Thr Asn Lys
 355 360 365
 Arg Cys Ala Ala Ile Thr Phe Ser Gly Gln Thr Phe Thr Gly Lys Met
 370 375 380
 Ser Val Ala Val Gly Gly Gly Leu Ile Gly Val Phe Leu Thr Met Ile
 385 390 395 400
 Asp Tyr Val Pro Gln Ala Gln Ala Gln Ser Asp Ser Val Leu Ser Gly
 405 410 415
 Leu Phe Phe Gly Ile Cys Leu Leu Pro Ala Ile Gly Ser Leu Ile Arg
 420 425 430
 Met Gly Phe Met Ser Arg Phe Thr Phe Thr Glu Glu Lys His Ala Glu
 435 440 445
 Val Cys Arg Leu Leu Ala Glu Arg Arg His His Val Glu Asn Ser Arg
 450 455 460
 Ala Glu Asn Glu Arg Leu Glu Arg Pro Ala Pro Ala Asn
 465 470 475

<210> 9011

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 9011

Met Arg Thr Glu Asp Gln Trp Tyr Arg Ala Pro Ser Ala Arg Glu Gly
 1 5 10 15
 Lys Pro Arg Arg Val Thr Ile Cys Leu Arg Lys Asp Ser Met Thr Leu
 20 25 30
 Pro Trp Arg Ile Ala Ile Ile Asp Asp Glu Arg Ser Val Arg Ser Gly
 35 40 45
 Leu Ser Asn Leu Leu Gln Ser Glu Gly Tyr Ala Thr Asp Thr Phe Asp
 50 55 60
 Ser Ala Glu Val Phe Leu Ser His Pro Leu Ala Leu Ser Gly Ala Ser
 65 70 75 80
 Leu Val Ile Ala Asp Ile Lys Leu Arg Gly Met Asn Gly Ile Glu Leu
 85 90 95
 Phe Glu Lys Leu Arg Leu Leu Ala Met Pro Pro Pro Pro Ile Leu Phe
 100 105 110
 Ile Ser Gly His Ala Asp Glu Asn Met Gln Arg Tyr Ala Leu Ser Leu
 115 120 125
 Gly Ala Ala Ala Phe Leu Arg Lys Pro Ile Asn Ile Asp Ile Leu Leu
 130 135 140
 Asp His Ile Gln Arg Glu Leu Thr Arg Arg Gln
 145 150 155

<210> 9012

<211> 1865

<212> PRT

<213> Enterobacter cloacae

<400> 9012

Gly Ser Arg Met Asn Glu His Thr Ser Pro Ala Phe Trp Pro Ala Arg
 1 5 10 15
 Gly Ser Leu His Glu Gly Arg Ala Phe Val Leu Lys Glu Asp Val Ile

			20					25					30				
Phe	Thr	Val	Leu	Ala	Gln	Glu	Gly	Gly	Ile	Ser	Trp	Met	Asn	Gly	Arg		
		35					40					45					
His	Pro	Gln	Ser	Gly	Gly	Ser	Phe	Ile	Ile	Ala	Thr	Ala	Val	Ser	Asp		
		50				55					60						
Glu	Glu	Glu	Glu	Arg	Ala	Thr	Arg	Leu	Leu	Lys	Asn	Glu	Phe	Ala	Leu		
65					70					75				80			
Arg	Asp	Arg	Leu	His	Asp	Gly	Trp	Ala	Ile	Arg	Pro	Val	Ala	Ser	Thr		
				85					90					95			
Gln	Tyr	Arg	Gly	Arg	Phe	Ala	Leu	Val	Tyr	Ala	Pro	Phe	Cys	Phe	Glu		
			100					105					110				
Leu	Leu	Ala	Cys	Arg	Ala	Gly	Lys	Ala	Ile	Ser	Gly	Ile	Ala	Arg	Phe		
			115				120					125					
Ile	Glu	Met	Ala	Ile	Arg	Ile	Cys	Gly	Pro	Leu	Arg	Gln	Met	His	Gln		
						135					140						
His	Asn	Leu	Ile	His	Gly	Asp	Ile	Lys	Pro	Gly	Ala	Ile	Phe	Val	His		
145					150					155					160		
His	Asp	Ala	Thr	Cys	Arg	Leu	Cys	Ser	Phe	Gly	Leu	Ser	Cys	Gly	Thr		
				165					170					175			
Ser	Asp	Ala	Phe	Ser	Gln	Ser	Arg	Leu	Ala	Ala	Ser	Gly	Gly	Thr	Pro		
			180					185					190				
Ala	Tyr	Met	Ser	Pro	Glu	His	Thr	Thr	Arg	Thr	Arg	Arg	Ala	Val	Asp		
							200					205					
Ser	Arg	Ser	Asp	Leu	Tyr	Ser	Leu	Gly	Ile	Val	Leu	Tyr	Glu	Leu	Leu		
						215					220						
Thr	Gly	Arg	Leu	Pro	Phe	Glu	Leu	Ser	Ala	Asp	Asp	Gln	Thr	Asn	Trp		
225					230					235					240		
Ala	His	Tyr	His	Ile	Ala	Ser	Glu	Pro	Leu	Ala	Pro	Gly	Arg	Val	Arg		
				245					250					255			
Pro	Asp	Val	Pro	Gly	Met	Leu	Ser	Thr	Ile	Ile	Leu	Lys	Leu	Leu	Glu		
				260				265					270				
Lys	Asn	Pro	Glu	Asn	Arg	Tyr	Gln	Thr	Val	Asp	Gly	Leu	Ile	Ala	Asp		
							280					285					
Leu	Arg	Arg	Cys	Gln	Ala	Thr	Leu	Thr	Val	Glu	Gly	Glu	Ile	Val	Asp		
						295					300						
Phe	Ile	Pro	Gly	Gln	Gln	Asp	Arg	Ser	Pro	Ala	Ile	His	Leu	Ala	Asp		
305					310					315					320		
Ser	Leu	Phe	Ser	Ala	His	Pro	Gln	Ala	Ser	Asp	Val	Ile	Ala	Ala	Phe		
				325					330					335			
Glu	Arg	Val	Ser	Gln	Ser	Gly	Ala	Pro	Glu	Val	Val	Thr	Ile	Gly	Gly		
				340				345					350				
Pro	Ser	Gly	Ile	Gly	Lys	Ser	Ser	Val	Ile	Ala	Thr	Thr	Leu	Lys	Ser		
				355				360					365				
Leu	Gln	Gln	Arg	Lys	Val	Leu	Leu	Ala	Val	Gly	Lys	Val	Asp	Gln	Tyr		
						375					380						
Ser	Pro	Thr	Leu	Pro	Tyr	Gly	Val	Leu	Ser	Ser	Ala	Phe	Arg</				

Ala	His	Arg	Asp	Leu	Ser	Ser	Leu	Ser	Asp	Pro	Thr	Leu	Gln	Thr	Ala
		515					520					525			
Leu	Ala	Ser	Leu	Pro	Glu	Ala	Ala	Gln	Tyr	Ala	Thr	Thr	Ile	Val	Pro
	530					535					540				
Gln	Pro	Leu	Ser	Val	Lys	Ala	Val	Ala	Arg	Trp	Leu	Gly	Gly	Ile	Phe
545					550				555						560
His	Ala	Arg	Ser	Ser	Gly	Thr	Ala	Asp	Leu	Ala	Thr	Leu	Ile	His	Glu
			565					570						575	
Lys	Thr	Gly	Gly	Asn	Pro	Leu	Phe	Val	Gln	Glu	Phe	Phe	Arg	Arg	Ile
			580					585					590		
Val	Asp	Asp	Gly	Leu	Val	Val	His	Asn	Lys	Tyr	Gln	Gly	Lys	Trp	His
	595						600					605			
Tyr	Asp	Leu	Gln	Ala	Ile	Arg	Ala	Arg	His	Tyr	Thr	Glu	Asn	Val	Val
	610					615					620				
Thr	Leu	Val	Leu	Glu	Gln	Leu	Lys	Glu	Met	Pro	Asp	Glu	Thr	Arg	Arg
625				630					635						640
Leu	Leu	Gly	Ser	Ile	Ala	Cys	Leu	Gly	Cys	Thr	Gly	Glu	Leu	Glu	Met
			645					650						655	
Leu	Cys	Arg	Val	Val	Gly	Arg	Ser	Ala	Ala	Glu	Ile	Arg	Tyr	Ala	Leu
		660						665					670		
His	Pro	Ala	Val	Thr	Ala	Gln	Leu	Ile	Val	Leu	Thr	Glu	Lys	Glu	Tyr
	675						680					685			
Ala	Phe	Thr	His	Asp	Arg	Val	Gln	Glu	Ala	Ala	Phe	Ala	Leu	Leu	Asp
	690					695					700				
Glu	Gly	Glu	Lys	Ser	His	Leu	His	Leu	Thr	Thr	Ala	Ser	Leu	Leu	Ala
705				710					715						720
Asp	Ala	Ala	Arg	Gln	Thr	Ala	Gly	Asn	Glu	Leu	Leu	Phe	Arg	Ala	Val
			725					730						735	
His	His	Val	Ser	Ala	Ala	Leu	Asp	Cys	Ile	Gln	Pro	Ala	Pro	Gln	Arg
		740					745						750		
Gln	Arg	Phe	Arg	Glu	Leu	Ser	Leu	Gln	Ala	Ala	Arg	Arg	Ala	Lys	Arg
	755					760						765			
Thr	Gly	Asp	Tyr	Leu	Ser	Ala	Leu	Ser	Tyr	Ile	Gln	Thr	Ala	Arg	Ala
	770				775						780				
Leu	Gly	Asn	Ala	Gly	Pro	Val	Ser	Asp	Phe	Met	Leu	Asp	Ile	Glu	Glu
785				790					795						800
Ala	Gly	Cys	Glu	Phe	Ala	Leu	Gly	His	Leu	Glu	Arg	Thr	Arg	Ala	Leu
			805					810						815	
Cys	Asp	Ala	Ile	Leu	Gly	Ser	Pro	Gly	Gly	Leu	Thr	Glu	Lys	Ala	Leu
		820					825						830		
Ala	Ala	Asn	Leu	Leu	Ala	Glu	Val	Tyr	Met	Arg	Gln	Ser	Glu	Ile	Arg
	835					840						845			
Leu	Ala	Leu	Glu	Ala	Ser	Leu	Cys	Trp	Leu	Gly	Val	Phe	Gly	Ile	Gln
	850				855						860				
Ile	Ser	Arg	Tyr	Pro	Glu	Asn	Ala	Glu	Cys	Asp	Glu	Ala	Trp	Gln	Gln
865				870					875						880
Phe	Cys	Gln	Arg	Thr	Ala	Asp	Ala	Pro	Leu	Asn	Pro	Phe	Ser	Gln	Leu
			885					890						895	
Lys	Leu	Met	Glu	Asn	Ala	Glu	Thr	Glu	Ala	Val	Met	Asn	Leu	Leu	Tyr
		900					905						910		
Ser	Ala	Ser	Ile	Phe	Ala	Ser	Phe	Thr	Cys	Pro	Arg	Leu	His	Phe	Leu
	915					920						925			
Leu	Leu	Cys	Arg	Met	Met	His	Leu	Thr	Leu	Asp	His	Gly	Ile	Thr	Gly
	930				935						940				
Ala	Ser	Thr	Thr	Ala	Met	Ala	Trp	Phe	Gly	Val	Leu	Ile	Gly	His	Arg
945				950					955						960
Tyr	Ala	Glu	Tyr	Arg	Leu	Gly	Phe	Glu	Tyr	Gly	Thr	Leu	Ala	Arg	Glu
			965					970						975	
Leu	Val	Asn	Arg	His	Gly	Tyr	Asp	Ala	Tyr	Glu	Ala	Lys	Thr	Leu	Leu
		980					985						990		
Pro	Leu	Asp	Gln	Leu	Ser	Val	Trp	Thr	Gln	Pro	Leu	Ser	Tyr	Thr	Ile

	995		1000		1005										
Glu	Cys	Ala	Lys	Ala	Cys	Phe	Thr	Ser	Ala	Val	Thr	His	Gly	Asp	Met
	1010					1015					1020				
Thr	Met	Ala	Cys	Phe	Ala	Ala	Cys	His	Gln	Ile	Ile	Asn	Phe	Leu	Ser
1025					1030					1035					1040
Arg	Gly	Asp	His	Leu	Asp	Gly	Val	Leu	Thr	Ser	Ile	Asp	Arg	Gly	Leu
				1045					1050					1055	
Ala	Phe	Val	Arg	Lys	Thr	Asp	Tyr	Gln	Asp	Ile	Glu	Thr	Val	Leu	His
			1060					1065					1070		
Ile	Gln	Arg	Arg	Tyr	Val	Glu	Phe	Leu	Arg	Thr	Pro	Val	Thr	Gly	Pro
	1075						1080				1085				
Trp	Ser	Ala	Ala	Gln	Ala	Leu	Pro	Asp	Asp	Leu	Leu	Pro	Ala	Pro	Pro
	1090					1095					1100				
Glu	Gln	Ala	Pro	Glu	Gln	Thr	Ser	Thr	Met	Leu	Phe	Trp	Tyr	Trp	Leu
1105					1110					1115					1120
Tyr	Arg	Gly	Met	Ala	His	Phe	Ser	Cys	Gly	Glu	Tyr	Ala	Asp	Ala	Gln
			1125						1130					1135	
Ala	Asp	Leu	Glu	Arg	Ala	Gly	Trp	Tyr	Ala	Trp	Ser	Ala	Pro	Gly	His
			1140					1145					1150		
Ile	His	Leu	Leu	Asp	Tyr	His	Phe	Tyr	Ser	Ala	Leu	Ala	Leu	Ser	Arg
	1155					1160				1165					
Gln	Leu	Thr	Pro	Glu	Thr	Phe	Ser	Ala	Asp	Tyr	Arg	Arg	Ser	Ile	His
	1170					1175					1180				
His	His	Tyr	Asp	Lys	Ile	Ala	Leu	Trp	Ala	Arg	Ile	Asn	Ser	Gly	Thr
1185				1190					1195						1200
Phe	Ala	Asp	Lys	Glu	Ala	Leu	Ile	Tyr	Ala	Glu	Ile	Val	Arg	Leu	Asp
			1205						1210					1215	
Gly	Met	Asn	Ser	Ile	Ala	Leu	Glu	Gln	Tyr	Glu	Lys	Ala	Val	Arg	Leu
	1220						1225						1230		
Ser	Arg	Glu	Gly	Gly	Phe	Asn	Pro	Ile	Asn	Ala	Leu	Ala	His	Glu	Leu
	1235					1240					1245				
Ala	Gly	Arg	Phe	Ser	Leu	Ala	Cys	Gly	Tyr	Pro	Thr	Ala	Ser	Asp	Ala
	1250					1255				1260					
His	Phe	Arg	Gly	Ala	Ile	Ala	Ala	Trp	Gly	Arg	Ala	Gly	Ala	Gln	Ala
1265				1270					1275						1280
Lys	Val	Arg	Gln	Leu	Glu	Gln	Asp	Phe	Pro	His	Leu	Leu	Ala	Ser	Gly
			1285					1290						1295	
Gln	Ser	Arg	Ala	Tyr	Asp	Thr	Ala	Ala	Phe	Ala	Gln	Asn	Glu	Val	Ile
	1300					1305							1310		
Arg	Asp	Leu	Gln	Ser	Val	Ile	Lys	Ala	Ser	Arg	Ala	Leu	Ser	Glu	Glu
	1315					1320					1325				
Ile	Asn	Leu	Glu	Arg	Leu	Ile	Glu	Asn	Leu	Met	Thr	Leu	Leu	Leu	Glu
	1330				1335					1340					
Arg	Ala	Gly	Ala	Gln	Arg	Gly	Leu	Leu	Leu	Arg	Val	Ser	Asp	Asn	His
1345				1350					1355						1360
Ile	Pro	Glu	Ile	Glu	Ala	Ser	Ala	Trp	Thr	Ser	Thr	Asp	Gly	Val	Arg
			1365					1370						1375	
Val	Arg	Ile	Leu	Lys	Ala	Ser	Pro	Met	Ala	Thr	Asp	Met	Pro	Leu	Ser
	1380					1385					1390				
Val	Leu	Ala	Ala	Val	Ile	Arg	Thr	Gly	Gln	Glu	Ile	Arg	Thr	Gly	Lys
	1395					1400				1405					
Pro	Glu	Glu	Phe	His	Pro	Phe	Ser	Gln	Asp	Pro	Tyr	Leu	Val	Thr	Ser
	1410					1415				1420					
Gly	Ala	Ala	Val	Met	Cys	Val	Pro	Met	Phe	Lys	Gln	Ala	Arg	Leu	Val
1425				1430					1435						1440
Gly	Val	Leu	Tyr	Leu	Glu	Asn	Arg	Leu	Met	Pro	Glu	Val	Phe	Thr	Ala
			1445					1450						1455	
Glu	His	Ser	Arg	Val	Val	Ser	Leu	Leu	Gly	Ala	Gln	Ala	Ala	Val	Ser
	1460					1465					1470				
Leu	Glu	Thr	Ala	Arg	Leu	Tyr	Ala	Glu	Leu	Leu	Ala	Glu	Asn	Ile	Gln
	1475					1480					1485				

Arg Arg Arg Val Glu Lys Glu Leu Arg Ala Ser Gln Thr Ser Leu Met
 1490 1495 1500
 Leu Gly Glu Gln Ile Ser His Thr Gly Ser Trp Arg Trp Glu Leu Val
 1505 1510 1515 1520
 Gln Asp Leu Met Phe Met Ser Glu Glu Tyr Ala Arg Ile Leu Gly Leu
 1525 1530 1535
 Pro Glu Gln Gln Lys Met Ile Ser Met Ala Glu Phe Leu Thr Phe Val
 1540 1545 1550
 His Glu Asp Asp Tyr Gly Arg Ile Ser Thr Leu Val Asn Gln Ser Val
 1555 1560 1565
 Arg Asp Gly Leu Ser Met Arg Ala Glu Phe Arg Ile Ile Arg Thr Asp
 1570 1575 1580
 Gly Ser Val Arg Tyr Ile Leu Gly Ile Gly Asp Pro Val Gly Val Gly
 1585 1590 1595 1600
 Ser Glu Val Asn Glu Tyr Tyr Gly Ile Ile Thr Asp Ile Thr Ser Gln
 1605 1610 1615
 Arg Ala Ala Glu Asp Ala Met Arg Val Ala Gln Ala Asp Leu Ala Arg
 1620 1625 1630
 Val Ser Arg Ala Thr Thr Val Gly Gln Leu Thr Ser Ser Ile Ala His
 1635 1640 1645
 Glu Ile Asn Gln Pro Leu Met Ser Ile Val Ser Asn Ala Gly Ala Ser
 1650 1655 1660
 Leu Arg Trp Leu Asn Arg Asp Pro Ala Arg Leu Asp Lys Val Arg Glu
 1665 1670 1675 1680
 Gly Leu Glu Glu Ile Ala Ala Glu Gly Glu Arg Ala Gly Glu Ile Ile
 1685 1690 1695
 Arg Ser Ile Gln Ser Leu Thr Arg Lys Gln Asp Pro Thr Phe Thr Arg
 1700 1705 1710
 Ile Asp Leu His Phe Leu Ile His His Ile Ile Met Leu Ser Arg Ser
 1715 1720 1725
 Glu Leu Glu Leu Arg His Ile Ser Val Asp Tyr Leu Leu Asn Ala Asp
 1730 1735 1740
 Asp Ser Phe Ile Ile Gly Asp Ser Val Gln Ile Gln Gln Val Leu Leu
 1745 1750 1755 1760
 Asn Leu Val Met Asn Ala Met Glu Ala Met Ala Glu Val Thr Asp Arg
 1765 1770 1775
 Pro Cys Ser Ile Thr Ile Ser Thr Ala Asn Cys Gly Glu Gly Lys Val
 1780 1785 1790
 Ile Phe Glu Ile Ala Asp Thr Gly Ser Gly Ile Glu Pro Glu Leu Thr
 1795 1800 1805
 Glu Arg Ile Phe Asp Ser Phe Tyr Ser Thr Lys Ala Gln Gly Met Gly
 1810 1815 1820
 Met Gly Leu Thr Ile Ser Ala Ser Ile Ile Glu Arg His Arg Gly Lys
 1825 1830 1835 1840
 Leu Ser Ala Arg Arg Arg Glu Pro Tyr Gly Thr Val Phe Thr Phe Ala
 1845 1850 1855
 Leu Pro Leu Ala Gly Gln Glu Glu
 1860 1865

<210> 9013

<211> 210

<212> PRT

<213> Enterobacter cloacae

<400> 9013

Ala Arg Gln Ala Glu Asp Ile Thr Met His Tyr Thr Leu Lys Ser Ser
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 Asp Asp Lys Glu Lys Ala Glu Gly Thr Asn Gly Ala Gly Ala Leu Gln
 20 25 30
 Gln Lys Leu Leu Glu Ser Arg Ser Ile Val Ile Ser Gly Glu Ile Asn
 35 40 45

Gln Glu Leu Ala Gln Lys Val Ile Thr Gln Met Ile Leu Leu Gln Ser
 50 55 60
 Val Ser Asn Asp Pro Ile Lys Leu Tyr Ile Asn Ser Gln Gly Gly His
 65 70 75 80
 Val Glu Ala Gly Asp Thr Ile His Asp Phe Ile Lys Phe Ile Arg Pro
 85 90 95
 Glu Val His Val Ile Gly Thr Gly Trp Val Ala Ser Ala Gly Ile Thr
 100 105 110
 Ile Phe Leu Ala Ala Lys Lys Glu His Arg Tyr Ser Leu Pro Asn Thr
 115 120 125
 Arg Phe Met Ile His Gln Pro Leu Gly Gly Val Arg Gly Gln Ala Thr
 130 135 140
 Asp Ile Glu Ile Glu Ala Arg Glu Ile Ile Arg Met Leu Glu Arg Val
 145 150 155 160
 Asn Lys Leu Ile Ala Asp Ala Thr Gly Gln Pro Leu Glu Lys Val Lys
 165 170 175
 Lys Asp Thr Asp Arg Asn Phe Trp Met Ser Pro Ala Glu Ala Leu Asp
 180 185 190
 Tyr Gly Ile Val Gly Lys Leu Ile Thr His Tyr Asp Glu Leu Asn Leu
 195 200 205
 Asp
 210

<210> 9014

<211> 339

<212> PRT

<213> Enterobacter cloacae

<400> 9014

Leu Leu Pro Leu Gln Met Asp Gly Thr Val Leu Pro Val Leu Ser Arg
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 Cys Arg Pro Arg Met Met Leu Gln Ser Glu Asn Lys Ser Ala Lys Arg
 20 25 30
 Ile Phe Phe Val Glu Asp Phe Gln Val Phe Gly Glu Arg Tyr Gly Ile
 35 40 45
 Asp Tyr Arg Phe Pro Gln Leu Lys Glu Ala Gln Val Ser Gly Ser Pro
 50 55 60
 Val Leu Gln Gly Asn Val Glu Glu Met Met Leu Ser Ser Gly Ile Ser
 65 70 75 80
 Leu Thr His Ser Asp Val Arg Val Leu Gln Pro Tyr Glu Thr Thr Ser
 85 90 95
 Arg His Ser Ser Pro Leu Tyr Met Leu Val Val Leu Glu Gly Cys Val
 100 105 110
 Thr Leu Thr Leu Asn Gly Ile Asn Tyr Pro Val Arg Pro Gly Met Ala
 115 120 125
 Phe Ser Ser His Leu Ser Glu Asp Gln Val Met Ser Ala Arg His Asp
 130 135 140
 Ala Asp Ser Thr Leu Lys Thr Leu Ser Phe Gly Val Tyr Pro His Asp
 145 150 155 160
 Ala Gly Arg Glu Ala Leu Leu Glu Ser Leu Leu Leu Glu Trp Gln Ser
 165 170 175
 Leu Asn Ala Pro Ala Phe Val Trp Gln Val Pro Glu Phe Val Met Ser
 180 185 190
 Gly Ile Leu His Ala Gln Arg Gln Gly Gly Ser Val Leu Ser Arg Lys
 195 200 205
 Leu Leu Leu Glu Gly Leu Met Tyr Gln Leu Leu Gly His Gly Leu Asn
 210 215 220
 Gln Arg Gln Gln Pro Cys Pro Ser Arg Pro Glu His Ala Arg Leu Glu
 225 230 235 240
 Arg Val Arg Ser Leu Leu Glu Gln Ser Pro Glu Arg Asp His Thr Leu
 245 250 255

Ala Gln Leu Ala Ala Leu Ala Ala Met Ser Pro Ser Ser Leu Arg Ser
 260 265 270
 Lys Phe Arg Gln Arg Tyr Gly Cys Thr Leu Phe Asp Tyr Leu Arg Asn
 275 280 285
 Cys Arg Leu Ala Leu Ala Arg Arg Tyr Leu Leu Glu Gly His Ser Val
 290 295 300
 Gln Gln Ala Ala Trp Met Cys Gly Tyr Gln His Ala Thr Asn Phe Ala
 305 310 315 320
 Thr Ala Phe Arg Arg His Tyr Gly Ile Ser Pro Gly Asp Val Arg Lys
 325 330 335
 Leu Arg

<210> 9015

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 9015

Leu Ser Val Val Ser Asn Arg Gly Gly Arg Ser Gln Arg Leu Asn Glu
 1 5 10 15
 Ala Leu Glu Lys Leu Asn Glu Met Gly Ile Thr Thr Lys Leu Val Asn
 20 25 30
 Arg Val His Ser Lys Ile Val Val Gly Asp Glu Gly Leu Leu Cys Val
 35 40 45
 Gly Ser Phe Asn Trp Phe Ser Ala Ala Arg Glu Glu Arg Tyr Gln Arg
 50 55 60
 Tyr Asp Thr Ser Met Val Tyr Arg Gly Asp Ser Leu Lys Ala Glu Ile
 65 70 75 80
 Lys Thr Ile Tyr Ser Ser Leu Glu Gln Arg Gln Leu
 85 90

<210> 9016

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 9016

Glu Leu Tyr Met Ala Ala Thr Asn Phe Lys Pro Glu Phe Thr Val Cys
 1 5 10 15
 Lys Thr Glu Ser Asp Ala Phe Thr Gly Met Ile Glu Asn Arg Glu Leu
 20 25 30
 Val Arg Lys Asn Ser Ala Arg Arg Leu His Gly Asn Gln Pro Asn Ala
 35 40 45
 Ala Pro Val His Pro Arg Ala Glu Thr Pro Gln Asp Ser Ala Ala Cys
 50 55 60
 Cys Glu Leu Tyr Ala Arg Ile Asp Met Lys Tyr Leu Leu Leu Gly Gly
 65 70 75 80
 Glu Trp Leu Thr Arg Ala Gly Phe Ile Asn Gly Met Pro Val Lys Ile
 85 90 95
 Arg Ala Met Lys Asp Cys Ile Val Ile Thr Pro Gln His Thr Arg Glu
 100 105 110
 Leu Trp Gly Cys Leu Glu Gly Met Ser Val Val Asn Ile Asn Lys Gln
 115 120 125
 Lys Val Ala Gln Trp Leu Lys Thr Phe Pro Gly Ala Leu Asn Asp Thr
 130 135 140
 Gly Asp Ile Pro Val Val Lys Arg Asn Ile Val Gln Ala Lys
 145 150 155

<210> 9017

<211> 204

<212> PRT

<213> Enterobacter cloacae

<400> 9017

Arg	Cys	Asn	Ala	Glu	Arg	Gly	Leu	Arg	Cys	Glu	Lys	Ala	Ala	Phe	Arg
1				5					10					15	
Arg	Leu	Ser	Glu	Asn	Gly	Glu	Asn	Tyr	Ser	Met	Pro	Pro	Leu	Arg	Arg
			20					25					30		
Gln	Pro	Pro	Ala	Val	Tyr	Gly	Glu	His	Gly	Val	Val	Tyr	Val	His	Leu
			35				40					45			
Phe	Thr	Val	Pro	Arg	Pro	Ala	Arg	Lys	Thr	Lys	Gly	His	Val	Met	Leu
	50					55				60					
Gln	Ser	Leu	Asn	His	Leu	Thr	Leu	Ala	Val	Ser	Asp	Leu	Gln	Lys	Ser
65					70					75				80	
Val	Thr	Phe	Trp	His	Glu	Leu	Leu	Gly	Leu	Thr	Leu	His	Ala	Arg	Trp
				85					90					95	
Asn	Ala	Gly	Ala	Tyr	Leu	Thr	Cys	Gly	Glu	Leu	Trp	Val	Cys	Leu	Ser
			100					105					110		
Tyr	Asp	Glu	Ala	Arg	Gln	Tyr	Val	Pro	Pro	Gln	Glu	Ser	Asp	Tyr	Thr
		115					120					125			
His	Tyr	Ala	Phe	Thr	Val	Ala	Glu	Glu	Asp	Phe	Glu	Pro	Phe	Ser	Gln
	130					135					140				
Arg	Leu	Lys	Gln	Thr	Gly	Val	Thr	Val	Trp	Lys	Gln	Asn	Lys	Ser	Glu
145					150					155					160
Gly	Ala	Ser	Phe	Tyr	Phe	Leu	Asp	Pro	Asp	Gly	His	Lys	Leu	Glu	Leu
				165					170					175	
His	Val	Gly	Ser	Leu	Ala	Ala	Arg	Leu	Ala	Ala	Cys	Arg	Glu	Lys	Pro
			180					185					190		
Tyr	Ala	Gly	Met	Val	Phe	Thr	Ser	Asp	Glu	Ala					
		195						200							

<210> 9018

<211> 237

<212> PRT

<213> Enterobacter cloacae

<400> 9018

Pro	Leu	Thr	Ser	Leu	Asp	Asn	Leu	Met	Thr	Thr	Ser	Lys	Leu	Glu	Val
1				5					10					15	
Leu	Thr	Pro	Ala	Asn	Cys	Gln	Ile	Ile	Phe	Ile	Asp	His	Gln	Pro	Gln
			20					25					30		
Met	Ala	Phe	Gly	Val	Gln	Ser	Ile	Asp	Arg	Gln	Val	Leu	Lys	Asn	Asn
		35					40					45			
Thr	Val	Ala	Leu	Ala	Lys	Ala	Ala	Lys	Val	Phe	Asn	Ile	Pro	Thr	Ile
	50					55				60					
Ile	Thr	Thr	Val	Glu	Thr	Glu	Ser	Phe	Ser	Gly	Asn	Thr	Tyr	Pro	Glu
65				70						75				80	
Leu	Leu	Asp	Val	Phe	Pro	Gly	Gln	Asp	Ile	Leu	Glu	Arg	Thr	Ser	Met
			85						90					95	
Asn	Ser	Trp	Asp	Asp	Gln	Lys	Val	Arg	Asp	Ala	Leu	Lys	Ala	Asn	Gly
			100					105					110		
Lys	Lys	Lys	Val	Val	Val	Ala	Gly	Leu	Trp	Thr	Glu	Val	Cys	Asn	Asn
		115					120					125			
Ser	Phe	Ala	Leu	Cys	Ala	Met	Leu	Glu	Gly	Asp	Tyr	Glu	Ile	Tyr	Met
	130					135					140				
Val	Ala	Asp	Ala	Ser	Gly	Gly	Thr	Ser	Lys	Glu	Ala	His	Asp	Phe	Ala
145					150					155					160
Met	Gln	Arg	Met	Ile	Gln	Ala	Gly	Val	Ile	Pro	Val	Thr	Trp	Gln	Gln
				165					170					175	
Val	Met	Leu	Glu	Trp	Gln	Arg	Asp	Trp	Ala	Arg	Lys	Glu	Thr	Tyr	Thr
			180					185					190		

Ala	Val	Met	Asp	Ile	Val	Arg	Glu	His	Ser	Gly	Ala	Tyr	Gly	Met	Gly
		195					200					205			
Val	Asp	Tyr	Ala	Tyr	Thr	Met	Val	His	Lys	Ala	Pro	Ser	Arg	Gln	Lys
	210					215					220				
Ser	Glu	His	Arg	Thr	Leu	Ala	Pro	Val	Pro	Ala	Arg				
225					230					235					

<210> 9019

<211> 704

<212> PRT

<213> Enterobacter cloacae

<400> 9019

Glu	Ile	Ser	Leu	Glu	Arg	Val	Met	Phe	Ala	Lys	Ser	Arg	Leu	Ala	Leu
1			5					10					15		
Leu	Val	Gly	Trp	Val	Thr	Gly	Ser	Val	Ala	Phe	Pro	Leu	Leu	Ala	Gln
		20					25					30			
Asp	Ala	Gln	Lys	Thr	Asp	Thr	Val	Val	Val	Thr	Ser	Gln	Met	Gln	Ser
	35					40					45				
Ala	Ala	Thr	Lys	Leu	Glu	Thr	Pro	Asp	Ile	Glu	Thr	Pro	Gln	Ser	Val
	50					55				60					
Ser	Ile	Val	Thr	Arg	Glu	Gln	Phe	Glu	Glu	Gln	Gly	Ala	Thr	Ser	Val
65				70				75						80	
Arg	Gln	Ala	Val	Ser	Tyr	Thr	Pro	Gly	Val	Tyr	Ser	Asn	Gln	Ile	Gly
			85					90					95		
Ala	Ser	Asn	Arg	Phe	Asp	Tyr	Met	Val	Leu	Arg	Gly	Phe	Ser	Asp	Gly
		100					105					110			
Ser	Leu	Asp	Asn	Val	Tyr	Leu	Asp	Gly	Leu	Lys	Met	Met	Gly	Asp	Thr
	115					120					125				
Asn	Ser	His	Ser	Ser	Leu	Val	Val	Asp	Pro	Trp	Phe	Leu	Asp	Ser	Ile
	130				135						140				
Glu	Val	Val	Arg	Gly	Pro	Ala	Ser	Val	Leu	Tyr	Gly	Arg	Ser	Ser	Pro
145				150					155						160
Gly	Gly	Ile	Val	Ala	Leu	Thr	Ser	Arg	Lys	Pro	Ser	Phe	Asp	Pro	Gly
			165					170						175	
Gly	Glu	Ile	Lys	Leu	Phe	Ala	Gly	Asn	Asn	Asn	Gln	Arg	Gly	Ala	Met
		180					185					190			
Phe	Asp	Val	Thr	Gly	Pro	Val	Asp	Asp	Asn	Asp	Arg	Val	Ala	Val	Arg
	195					200					205				
Leu	Ser	Gly	Met	Thr	Arg	Tyr	Ala	Asp	Ser	Gln	Phe	Asp	Pro	Leu	Lys
	210				215						220				
Glu	Glu	Arg	Tyr	Ala	Leu	Met	Pro	Ser	Leu	Thr	Trp	Arg	Ile	Thr	Asp
225				230					235						240
Asn	Thr	Arg	Leu	Asp	Leu	Met	Ala	Tyr	Leu	His	Arg	Asp	Pro	Glu	Gly
		245						250						255	
Gly	Ser	His	Ser	Gly	Leu	Pro	Tyr	Glu	Gly	Thr	Val	Val	Pro	His	Ser
		260					265						270		
Gly	Lys	Lys	Ile	Ser	Asn	Thr	Phe	Phe	Glu	Gly	Glu	Asp	Asp	Tyr	Asp
	275					280						285			
Lys	Tyr	Asp	Arg	Arg	Glu	Asn	Met	Val	Gly	Tyr	Asn	Ile	Glu	His	Leu
	290				295						300				
Phe	Asp	Ser	Gly	Trp	Ser	Val	Arg	Gln	Lys	Leu	Arg	Tyr	Leu	His	Thr
305				310					315						320
Lys	Val	Glu	Leu	Asn	Gln	Val	Tyr	Ala	Ala	Gly	Trp	Leu	Asn	Asp	Thr
			325					330						335	
Glu	Leu	Asn	Arg	Gly	Tyr	Ser	Gly	Ser	Asp	Glu	Lys	Met	Asn	Ala	Ile
		340					345					350			
Thr	Leu	Asp	Asn	Gln	Val	Asp	Gly	Ser	Phe	Asp	Thr	Gly	Glu	Val	Asn
	355					360						365			
His	Arg	Val	Leu	Ile	Gly	Met	Asp	Tyr	Gln	Asp	Arg	Thr	Asn	Asn	Val
	370					375					380				


```

Thr Gly Tyr Tyr Gly Gly Phe Pro Pro Ile Asp Ala Phe His Pro Val
385          390          395          400
Tyr Gly Ala Lys Pro Asp Tyr Ile Thr Gln Tyr Ser Arg Glu Lys His
          405          410          415
Lys Leu Arg Gln Thr Gly Tyr Tyr Leu Gln Asp Gln Met Ser Ile Asp
          420          425          430
Arg Trp Arg Leu Thr Leu Gly Gly Arg Tyr Asp Gln Val Ser Val Ser
          435          440          445
Asn Val Asp Asn Phe Asn His Thr Arg Ser Asp Leu Asp Lys Asn Arg
          450          455          460
Tyr Ser Ser Arg Ala Ala Leu Leu Tyr Leu Phe Asp Asn Gly Val Ala
465          470          475          480
Pro Tyr Val Ser Tyr Ser Thr Ala Phe Thr Pro Thr Ser Phe Ala Asp
          485          490          495
Glu Gln Gly Asn Ile Leu Asp Pro Met Lys Gly Lys Gln Trp Glu Ala
          500          505          510
Gly Val Lys Tyr Glu Pro Glu Gly Met Asn Ser Gln Phe Ser Ala Ser
          515          520          525
Val Phe Arg Ile Asn Gln Lys Asn Ile Ala Thr Lys Glu Glu Pro Thr
          530          535          540
Asp Pro Tyr Arg Ser Ile Gly Glu Ile Glu Ser Glu Gly Val Glu Leu
545          550          555          560
Glu Ala Ile Gly Gln Leu Thr Asp Ser Leu Arg Met Gln Ala Ala Tyr
          565          570          575
Thr Tyr Thr Asp Ile Arg Tyr Lys Lys Ser Ser Pro Glu Glu Glu Gly
          580          585          590
Lys Arg Ala Val Tyr Ala Pro Arg Asn Met Ala Ser Ala Trp Leu Ser
          595          600          605
Tyr Asp Val Lys Thr Gly Leu Leu Asp Gly Leu Thr Val Gly Ser Gly
          610          615          620
Val Arg Tyr Val Asn Gly Ile Ala Ser Asp Arg Gln Asn Thr His Thr
625          630          635          640
Leu Pro Ser Tyr Thr Leu Val Asp Met Thr Val Gly Tyr Asp Leu Ser
          645          650          655
Lys Val Gly Leu Thr Gly Val Ser Ala Gln Leu Asn Val Asn Asn Leu
          660          665          670
Thr Asp Arg Ser Tyr Val Ala Ala Cys Asn Ser Leu Ser Tyr Cys Tyr
          675          680          685
Phe Gly Ala Glu Arg Ser Ile Val Gly Ser Val Ser Trp Lys Phe
          690          695          700

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<210> 9020

<211> 381

<212> PRT

<213> Enterobacter cloacae

<400> 9020

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Val Lys Ser Val Pro Gly Leu Val Cys Leu Gln Lys Arg Gly Leu Gly
1          5          10          15
Ser His Ala Pro Thr Ser Cys Arg Thr Tyr Gly Ser Ile Thr Met Thr
          20          25          30
Asp Ile Ala Gln Leu Leu Gly Lys Asp Ala Asp Ser Leu Leu Gln His
          35          40          45
Arg Cys Met Thr Ile Pro Ala Asp Gln Leu Tyr Leu Pro Gly His Asp
          50          55          60
Tyr Val Asp Arg Val Met Val Asp Asn Asn Arg Pro Pro Ala Val Leu
65          70          75          80
Arg Asn Met Gln Thr Leu Tyr Asn Thr Gly Arg Leu Gly Gly Thr Gly
          85          90          95
Tyr Leu Ser Ile Leu Pro Val Asp Gln Gly Val Glu His Ser Ala Gly
          100          105          110

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Ala Ser Phe Ala Ala Asn Pro Leu Tyr Phe Asp Pro Lys Asn Ile Val
 115 120 125
 Glu Leu Ala Ile Glu Ala Gly Cys Asn Cys Val Ala Ser Thr Tyr Gly
 130 135 140
 Val Leu Ala Ser Val Ser Arg Arg Tyr Ala His Arg Ile Pro Phe Leu
 145 150 155 160
 Val Lys Leu Asn His Asn Glu Thr Leu Ser Tyr Pro Thr Glu Tyr Asp
 165 170 175
 Gln Thr Leu Tyr Ala Ser Val Glu Gln Ala Phe Asn Met Gly Ala Val
 180 185 190
 Ala Val Gly Ala Thr Ile Tyr Phe Gly Ser Glu Gln Ser Arg Arg Gln
 195 200 205
 Ile Glu Glu Ile Ser Ala Ala Phe Glu Arg Ala His Glu Leu Gly Met
 210 215 220
 Val Thr Val Leu Trp Ala Tyr Leu Arg Asn Ala Ser Phe Lys Lys Asp
 225 230 235 240
 Gly Val Asp Tyr His Val Ser Ala Asp Leu Thr Gly Gln Ala Asn His
 245 250 255
 Leu Ala Ala Thr Ile Gly Ala Asp Ile Val Lys Gln Lys Met Ala Glu
 260 265 270
 Asn Asn Gly Gly Tyr Lys Ala Val Asn Phe Gly Tyr Thr Asp Asp Arg
 275 280 285
 Val Tyr Ser Lys Leu Thr Ser Asp Asn Pro Ile Asp Leu Val Arg Tyr
 290 295 300
 Gln Leu Ala Asn Cys Tyr Met Gly Arg Ala Gly Leu Ile Asn Ser Gly
 305 310 315 320
 Gly Ala Ala Gly Gly Glu Thr Asp Leu Thr Asp Ala Val Arg Thr Ala
 325 330 335
 Val Ile Asn Lys Arg Ala Gly Gly Met Gly Leu Ile Leu Gly Arg Lys
 340 345 350
 Ala Phe Lys Lys Ser Met Ala Asp Gly Val Lys Leu Ile Asn Ala Val
 355 360 365
 Gln Asp Val Tyr Leu Asp Ser Lys Val Thr Ile Ala
 370 375 380

<210> 9021

<211> 206

<212> PRT

<213> Enterobacter cloacae

<400> 9021

Gly Phe Arg Ala Arg Cys Thr Lys Gly Glu Ser Ala Met Arg Leu Cys
 1 5 10 15
 Asp Arg Asp Ile Glu Ala Trp Leu Asp Glu Gly Arg Leu Ser Ile Thr
 20 25 30
 Pro Arg Pro Pro Val Glu Arg Ile Asn Gly Val Thr Val Asp Val Arg
 35 40 45
 Leu Gly Asn Lys Phe Arg Thr Phe Ser Gly His Thr Ala Pro Phe Ile
 50 55 60
 Asp Leu Ser Gly Pro Lys Asp Glu Val Ser Ala Ala Leu Asp Arg Val
 65 70 75 80
 Met Ser Asp Glu Ile Val Ile Asp Glu Gly Glu Ala Phe Tyr Leu His
 85 90 95
 Pro Gly Glu Leu Ala Leu Ala Val Thr Phe Glu Ser Val Thr Leu Pro
 100 105 110
 Ala Asp Leu Val Gly Trp Leu Asp Gly Arg Ser Ser Leu Ala Arg Leu
 115 120 125
 Gly Leu Met Val His Val Thr Ala His Arg Ile Asp Pro Gly Trp Ser
 130 135 140
 Gly Arg Ile Val Leu Glu Phe Phe Asn Ala Gly Lys Leu Pro Leu Ala
 145 150 155 160

Leu Arg Pro Gly Met Met Ile Gly Ala Leu Ser Phe Glu Pro Leu Thr
 165 170 175
 Gly Pro Ala Asp Arg Pro Tyr Asn Arg Arg Gln Asp Ala Lys Tyr Arg
 180 185 190
 Asp Gln Gln Gly Ala Val Ala Ser Arg Ile Asp Lys Asp
 195 200 205

<210> 9022

<211> 745

<212> PRT

<213> Enterobacter cloacae

<400> 9022

Gly Gly Ile His Leu Thr Arg Pro Val Cys Pro Ser Val Gly Ala Gly
 1 5 10 15
 Thr Glu Ser Ser Ala Gly Ile Thr Met Thr Glu Lys Thr Arg Pro Ser
 20 25 30
 Ala Ala Pro Thr Ser Gly Ser Asp Glu Ile Asp Ile Gly Arg Leu Val
 35 40 45
 Gly Thr Val Ile Glu Ala Lys Trp Trp Val Leu Gly Ile Thr Ala Ile
 50 55 60
 Phe Ala Val Ala Ala Ile Val Tyr Thr Leu Phe Ala Thr Pro Ile Tyr
 65 70 75 80
 Ser Ala Asp Ala Leu Val Gln Ile Glu Gln Asn Thr Gly Asn Ser Leu
 85 90 95
 Val Gln Asp Ile Gly Ser Ala Leu Ala Asn Lys Pro Pro Ala Ser Glu
 100 105 110
 Ala Glu Ile Gln Leu Ile Gln Ser Arg Leu Val Leu Gly Lys Thr Val
 115 120 125
 His Asp Leu Gly Leu Asp Ile Ala Val Thr Lys Asn Thr Phe Pro Val
 130 135 140
 Phe Gly Ala Gly Trp Asp Arg Leu Met Gly Arg Ser Asn Asp Thr Val
 145 150 155 160
 Lys Val Thr Asp Phe Val Ile Pro Lys Gly Ala Gly Asp Gln Thr Phe
 165 170 175
 Thr Leu Thr Val Leu Gly Pro Lys Gln Tyr Gln Leu Thr Ser Asp Ala
 180 185 190
 Gly Phe Ser Ala Arg Gly Glu Val Gly Gln Met Leu Thr Lys Glu Gly
 195 200 205
 Val Ser Ile Lys Val Ser Ala Ile Gln Ala His Glu Gly Gly Glu Phe
 210 215 220
 Thr Val Thr Lys Phe Ser Thr Leu Gly Met Ile Asn Asn Leu Gln Asn
 225 230 235 240
 Asn Leu Thr Val Thr Glu Asn Gly Lys Asp Thr Gly Val Leu Ser Met
 245 250 255
 Thr Phe Thr Gly Glu Asp Lys Asp Gln Ile Arg Asp Ile Leu Asn Ser
 260 265 270
 Ile Thr Arg Asn Tyr Leu Glu Gln Asn Val Glu Arg Lys Ser Ala Glu
 275 280 285
 Ala Ala Lys Ser Leu Ala Phe Leu Ser Lys Gln Leu Pro Glu Val Arg
 290 295 300
 Ala Arg Leu Asp Asp Ala Glu Asn Lys Leu Asn Ala Tyr Arg Gln Asp
 305 310 315 320
 Lys Asp Ser Val Asp Leu Pro Leu Glu Ala Lys Ser Val Leu Asp Ser
 325 330 335
 Met Val Asn Ile Asp Ala Gln Leu Asn Glu Leu Thr Phe Lys Glu Ala
 340 345 350
 Glu Ile Ser Lys Leu Tyr Thr Lys Arg His Pro Ala Tyr Arg Thr Leu
 355 360 365
 Leu Glu Lys Arg Arg Thr Leu Glu Glu Glu Lys Ala Lys Leu Asn Asp
 370 375 380

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Arg Val Thr Ala Met Pro Lys Thr Gln Gln Glu Ile Val Arg Leu Thr
385                      390                      395                      400
Arg Asp Val Glu Ser Gly Gln Gln Val Tyr Met Gln Leu Leu Asn Lys
                      405                      410                      415
Gln Gln Glu Leu Lys Ile Thr Glu Ala Ser Thr Val Gly Asp Val Arg
                      420                      425                      430
Ile Val Asp Pro Ala Ile Thr Gln Pro Gly Val Leu Lys Pro Lys Lys
                      435                      440                      445
Ala Leu Ile Ile Leu Gly Ser Ile Ile Leu Gly Leu Met Leu Ser Ile
                      450                      455                      460
Val Gly Val Leu Leu Arg Ser Leu Phe Asn Arg Gly Ile Glu Ser Pro
465                      470                      475                      480
Gln Val Leu Glu Glu Asn Gly Ile Ser Val Tyr Ala Ser Ile Pro Leu
                      485                      490                      495
Ser Glu Trp Gln Lys Ser Arg Asp Ser Val Lys Thr Val Lys Gly Val
                      500                      505                      510
Lys Arg Tyr Lys Gln Ser Gln Leu Leu Ala Val Gly Asn Pro Thr Asp
                      515                      520                      525
Leu Ala Ile Glu Ala Val Arg Ser Leu Arg Thr Ser Leu His Phe Ala
                      530                      535                      540
Met Met Gln Ala Lys Asn Asn Val Leu Met Met Thr Gly Val Ser Pro
545                      550                      555                      560
Ser Ile Gly Lys Thr Phe Val Cys Ala Asn Leu Ala Ala Val Val Ser
                      565                      570                      575
Gln Thr Asn Lys Arg Val Leu Leu Ile Asp Cys Asp Met Arg Lys Gly
                      580                      585                      590
Tyr Thr His Glu Leu Leu Gly Thr Asn Asn Val Asn Gly Leu Ser Glu
                      595                      600                      605
Ile Leu Leu Gly Lys Gly Glu Ile Ser Glu Ser Ala Lys Pro Thr Ser
610                      615                      620
Ile Pro Lys Phe Asp Leu Ile Pro Arg Gly Gln Val Pro Pro Asn Pro
625                      630                      635                      640
Ser Glu Leu Leu Met Ser Glu Arg Phe Thr Gln Leu Ile Glu Trp Ala
                      645                      650                      655
Ser Lys Asn Tyr Asp Leu Val Leu Ile Asp Thr Pro Pro Ile Leu Ala
                      660                      665                      670
Val Thr Asp Ala Ala Val Val Gly Arg His Ala Gly Thr Thr Leu Met
675                      680                      685
Val Ala Arg Tyr Ala Val Asn Thr Leu Lys Glu Val Glu Thr Ser Leu
690                      695                      700
Ser Arg Phe Glu Gln Asn Gly Ile Glu Val Lys Gly Val Ile Leu Asn
705                      710                      715                      720
Ser Ile Phe Arg Arg Ala Thr Gly Tyr Gln Asp Tyr Gly Tyr Tyr Glu
                      725                      730                      735
Tyr Glu Tyr Lys Ser Asp Ser Lys
                      740                      745

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<210> 9023

<211> 170

<212> PRT

<213> Enterobacter cloacae

<400> 9023

```

Arg Ala Ser Gly Glu Ile Met Phe Leu Glu Asp Cys Arg Ala Asn Ser
1                      5                      10                      15
Trp Ser Leu Arg Pro Cys Cys Met Val Leu Ala Tyr Arg Phe Ala His
20                      25                      30
Phe Cys Ser Val Trp Arg Lys Lys Asn Val Leu Asn Asn Ile Trp Ala
35                      40                      45
Ala Pro Val Leu Val Leu Tyr Arg Ile Ile Thr Glu Cys Phe Phe Gly
50                      55                      60

```

Tyr Glu Ile Gln Ala Ala Ala Thr Ile Gly Arg Arg Phe Thr Ile His
 65 70 75 80
 His Gly Tyr Ala Val Ile Asn Lys Phe Val Val Ala Gly Asp Asp
 85 90 95
 Phe Thr Ile Arg His Gly Val Thr Ile Gly Asn Arg Gly Pro Asp Ser
 100 105 110
 Leu Ala Cys Pro Val Ile Gly Asn Asn Val Glu Leu Gly Ala Asn Val
 115 120 125
 Val Met Ile Gly Asp Ile Thr Val Gly Asn Asn Val Thr Ile Gly Ala
 130 135 140
 Gly Ser Val Val Leu Asp Ser Ile Pro Asp Asn Ala Leu Val Val Gly
 145 150 155 160
 Glu Lys Ala Arg Val Lys Val Ile Lys
 165 170

<210> 9024

<211> 372

<212> PRT

<213> Enterobacter cloacae

<400> 9024

Leu Pro Pro Thr Ala Thr Pro Arg Gly Lys Cys Trp Arg Asn Arg Ala
 1 5 10 15
 Val Lys Pro Ser Val Lys Thr Arg Cys Cys Arg Trp Cys Ser Cys Arg
 20 25 30
 Arg Pro Ile Ser Arg Arg Leu Phe Leu Ala Arg Thr Trp Asn Arg Ser
 35 40 45
 Ala Thr Ala Ala Ala Lys Leu Thr Val Asp Asn Arg Cys Trp Arg Ser
 50 55 60
 Met Ser Arg Ser Ile Arg Ile Cys Ser Tyr Leu Leu Pro Leu Ile
 65 70 75 80
 Tyr Leu Leu Val Asn Val Lys Ile Ala Gln Leu Gly Glu Ser Phe Pro
 85 90 95
 Ile Thr Ile Val Thr Phe Leu Pro Val Leu Leu Leu Leu Tyr Val Asp
 100 105 110
 Lys Leu Asn Leu Lys Lys Leu Met Ile Ala Leu Gly Ile Gly Phe Gly
 115 120 125
 Leu Thr Ala Phe Asn Tyr Ile Phe Gly Gln Ser Leu Asp Ala Ser Lys
 130 135 140
 Tyr Val Thr Ser Thr Met Leu Phe Val Tyr Ile Val Ile Ile Ile Gly
 145 150 155 160
 Met Val Trp Ser Ile Arg Phe Lys Thr Ile Ser Pro His Asn Tyr Arg
 165 170 175
 Lys Ile Leu Arg Phe Phe Tyr Ile Val Val Gly Leu Ile Val Val Leu
 180 185 190
 Ala Ala Met Glu Met Ala Gln Ile Ile Leu Thr Gly Gly Ser Ser Leu
 195 200 205
 Met Glu Ile Ile Ser Lys Tyr Leu Ile Tyr Ser Asn Ser Tyr Val Leu
 210 215 220
 Asn Phe Ile Lys Phe Gly Gly Lys Arg Thr Thr Ala Leu Tyr Phe Glu
 225 230 235 240
 Pro Ala Phe Phe Ala Leu Ala Leu Ile Ser Ile Trp Leu Ser Ile Lys
 245 250 255
 Gln Phe Gly Ile Lys Thr Pro Lys Thr Asp Ala Met Ile Leu Ala Gly
 260 265 270
 Ile Val Leu Ser Gly Ser Phe Ser Gly Val Met Thr Phe Ile Leu Phe
 275 280 285
 Tyr Leu Leu Glu Trp Ala Phe Gln Tyr Leu Asn Lys Glu Ala Ile Lys
 290 295 300
 Lys Lys Leu Pro Leu Ala Ile Ile Ser Leu Thr Val Phe Leu Val Gly
 305 310 315 320

```
<210> 9025
<211> 380
<212> PRT
<213> Enterobacter cloacae
```

<400>	9025														
Ser 1	Met	Met	Lys	Ser 5	Lys	Met	Lys	Leu	Met 10	Pro	Leu	Leu	Val 15	Ser	Val
Thr	Leu	Met	Ser 20	Gly	Cys	Thr	Val	Phe 25	Pro	Gly	Ser	Asn 30	Met	Ser	Thr
Met	Gly	Lys 35	Asp	Val	Ile	Lys	Gln 40	Gln	Asp	Ala	Asp	Phe 45	Asp	Leu	Asp
Lys	Met 50	Val	Asn	Val	Tyr	Pro 55	Leu	Thr	Pro	Arg	Leu 60	Val	Glu	Gln	Leu
Arg 65	Pro	Arg	Pro	Asn 70	Val	Ala	Gln	Pro	Asn 75	Met	Ser	Leu	Asp	Gln	Glu
Ile	Ala	Ser	Tyr	Gln 85	Tyr	Arg	Val	Gly	Pro 90	Gly	Asp	Val	Ile	Asn 95	Val
Thr	Val	Trp	Asp 100	His	Pro	Glu	Leu	Thr 105	Thr	Pro	Ala	Gly	Gln 110	Tyr	Arg
Ser	Ser	Ser 115	Asp	Thr	Gly	Asn	Trp 120	Val	Gln	Ser	Asp	Gly 125	Thr	Met	Phe
Tyr	Pro	Tyr	Ile	Gly	Lys	Val 135	His	Val	Ala	Gly	Lys 140	Thr	Leu	Ala	Glu
Ile 145	Arg	Ser	Asp	Ile	Thr 150	Gly	Arg	Leu	Ala	Gln 155	Tyr	Ile	Ala	Asp	Pro
Gln	Val	Asp	Val	Asn 165	Ile	Ala	Ala	Phe	Arg 170	Ser	Gln	Lys	Ala	Tyr 175	Ile
Ser	Gly	Gln	Val 180	Asn	Lys	Ser	Gly	Gln 185	Gln	Ala	Ile	Thr	Asn 190	Val	Pro
Leu	Thr	Val 195	Leu	Asp	Ala	Ile	Asn 200	Ala	Ala	Gly	Gly	Leu 205	Thr	Asp	Gly
Ala	Asp	Trp 210	Arg	Asn	Val	Val	Leu 215	Thr	His	Asn	Gly 220	Lys	Glu	Gln	Arg
Ile 225	Ser	Leu	Gln	Ala	Leu 230	Met	Gln	Asn	Gly	Asp 235	Leu	Thr	Gln	Asn	Arg
Leu	Leu	Tyr	Pro	Gly 245	Asp	Ile	Leu	Tyr	Val 250	Pro	Arg	Asn	Asp	Asp	Leu
Lys	Val	Phe 260	Val	Met	Gly	Glu	Val	Lys 265	Lys	Gln	Ser	Thr	Leu 270	Lys	Met
Asp	Phe	Ser 275	Gly	Met	Thr	Leu	Thr 280	Glu	Ala	Leu	Gly	Asn 285	Ala	Glu	Gly
Ile	Asp 290	Leu	Thr	Ala	Ser	Asn 295	Ala	Ser	Gly	Ile	Phe 300	Val	Ile	Arg	Pro
Ile 305	Lys	Gly	Glu	Asn	Ala 310	Lys	Gly	Lys	Ile	Ala	Asn 315	Ile	Tyr	Gln	Leu
Asp	Met	Ser	Asp	Ala 325	Thr	Ser	Leu	Val	Met 330	Ala	Thr	Ser	Phe	Arg	Leu
Gln	Pro	Tyr	Asp 340	Val	Val	Tyr	Val	Thr 345	Thr	Ala	Pro	Val	Ala 350	Arg	Trp
Asn	Arg	Leu 355	Ile	Asn	Gln	Leu	Leu 360	Pro	Thr	Ile	Ser	Gly 365	Val	Arg	Tyr

Met Thr Asp Thr Ala Ser Asp Val His Asn Trp
 370 375 380

<210> 9026

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 9026

Ala Ala Met Phe Asn Lys Ile Leu Val Val Cys Val Gly Asn Ile Cys
 1 5 10 15
 Arg Ser Pro Thr Ala Glu Arg Leu Leu Lys Asn Tyr Gln Pro Ala Leu
 20 25 30
 Thr Val Asp Ser Ala Gly Leu Gly Ala Leu Val Gly Lys Gly Ala Asp
 35 40 45
 Glu Arg Ala Ala Ser Val Ala Leu Glu His Asn Leu Ser Leu Asp Gly
 50 55 60
 His Val Ala Arg Gln Val Ser Gly Arg Met Cys Arg Glu Tyr Asp Leu
 65 70 75 80
 Ile Leu Ala Met Glu Lys Arg His Ile His Ala Leu Cys Asp Ile Ala
 85 90 95
 Pro Glu Met Arg Gly Lys Val Met Leu Phe Gly His Trp Asp Gly Glu
 100 105 110
 Arg Glu Ile Pro Asp Pro Tyr Arg Lys Ser Arg Glu Ala Phe Glu Ala
 115 120 125
 Val Tyr Thr Leu Leu Asp Gln Ser Ala Arg Gln Trp Ala Gln Ala Leu
 130 135 140
 Lys Ala Gln Gln Gly
 145 150

<210> 9027

<211> 284

<212> PRT

<213> Enterobacter cloacae

<400> 9027

Gly Glu Asn Met Thr Thr Gln Arg Pro Leu Ile Ser Ile Tyr Met Pro
 1 5 10 15
 Thr Trp Asn Arg Gln Gln Leu Ala Ile Arg Ala Ile Lys Ser Val Leu
 20 25 30
 Arg Gln Asp Tyr Asp Asn Trp Glu Leu Ile Ile Val Asp Asp Cys Ser
 35 40 45
 Ser Ser Tyr Glu Gln Leu Gln Lys Phe Val Glu Asp Leu Asn Asp Pro
 50 55 60
 Arg Val Met Tyr Thr His Asn Ala Ile Asn Ser Gly Ala Cys Ala Val
 65 70 75 80
 Arg Asn Gln Ala Ile Met Gln Ala Lys Gly Gln Tyr Leu Thr Gly Ile
 85 90 95
 Asp Asp Asp Asp Glu Trp Thr Pro Asn Arg Leu Ser Ile Phe Leu Ser
 100 105 110
 His Lys Ala Gln Leu Val Thr His Ala Phe Leu Tyr Ala Asn Asp Tyr
 115 120 125
 Val Cys Gln Gly Glu Val Tyr Ser Gln Pro Ala Ser Leu Pro Leu Tyr
 130 135 140
 Pro Lys Ser Pro Tyr Ser Arg Arg Leu Phe Tyr Lys Arg Asn Ile Ile
 145 150 155 160
 Gly Asn Gln Val Phe Thr Trp Ala Trp Arg Phe Lys Glu Cys Leu Phe
 165 170 175
 Asp Thr Glu Leu Lys Ala Ala Gln Asp Tyr Asp Ile Phe Leu Arg Met
 180 185 190
 Val Val Glu Tyr Gly Glu Pro Trp Lys Val Glu Glu Ala Thr Gln Ile

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<210> 9028
<211> 340
<212> PRT
<213> Enterobacter cloacae
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[illegible]

340

<210> 9029

<211> 178

<212> PRT

<213> Enterobacter cloacae

<400> 9029

Gln	Pro	Leu	His	Phe	Ala	Leu	Phe	Val	Gln	Tyr	Pro	Val	Arg	Gln	Arg
1				5					10					15	
Thr	Asn	Val	Ala	Asp	Ala	Ile	Leu	Asp	Ala	Asn	Ala	Lys	Phe	Gln	Leu
			20					25					30		
Glu	Arg	His	Pro	Gly	Leu	Lys	Gly	Phe	Ser	Gln	His	Leu	Phe	Gly	Val
		35					40					45			
Gly	Ala	Ile	Phe	Arg	His	His	Gly	Arg	Met	Pro	Glu	Leu	Pro	Gly	Gly
	50					55					60				
Phe	Asn	Val	Arg	Gly	Asp	Leu	Val	Gln	Leu	Lys	His	Pro	Leu	Ile	Pro
65					70					75				80	
Ala	Asp	His	Val	Arg	Leu	Glu	Ile	Pro	Leu	Pro	Tyr	Pro	Asp	Ala	Thr
				85					90					95	
Gly	Phe	Val	Arg	Glu	Gly	Asp	Thr	Leu	His	Gln	Ala	Leu	Ile	Asp	Pro
		100						105					110		
Leu	Gly	Leu	Phe	Gln	Val	Val	Asp	Ile	Phe	Asn	Leu	Gly	Asn	Lys	Val
		115					120					125			
Glu	Arg	Gly	Ala	Val	Gly	Met	Ala	His	Asn	Gly	Asp	Gly	Gln	Gln	Arg
	130					135					140				
Pro	His	His	Arg	Ala	Ala	Ala	Ser	Val	Val	Ala	Phe	Phe	Glu	Ala	Val
145					150					155				160	
Ala	Ile	Asp	Leu	Pro	Val	Asn	Gln	Leu	Ser	Gln	Leu	Leu	Gln	Val	Gly
				165					170					175	
Ile															

<210> 9030

<211> 231

<212> PRT

<213> Enterobacter cloacae

<400> 9030

Arg	Ser	Gly	Val	Val	Leu	Pro	Tyr	Ile	Gln	Val	Asn	Gln	Val	Ala	Lys
1				5					10					15	
Phe	Met	Thr	Asp	Lys	Ser	His	Gln	Cys	Val	Ile	Ile	Gly	Ile	Ala	Gly
			20					25					30		
Ala	Ser	Ala	Ser	Gly	Lys	Ser	Leu	Ile	Ala	Ser	Thr	Leu	Tyr	Arg	Glu
		35					40					45			
Leu	Arg	Glu	Gln	Val	Gly	Asp	Glu	His	Ile	Gly	Val	Ile	Pro	Glu	Asp
	50					55					60				
Ser	Tyr	Tyr	Lys	Asp	Gln	Ser	His	Leu	Ser	Met	Glu	Glu	Arg	Val	Lys
65					70					75				80	
Thr	Asn	Tyr	Asp	His	Pro	Ser	Ala	Met	Asp	His	Ser	Leu	Leu	Phe	Gln
				85					90					95	
His	Leu	Glu	Ala	Leu	Lys	Arg	Gly	Glu	Ala	Ile	Glu	Leu	Pro	Val	Tyr
			100					105					110		
Ser	Tyr	Val	Glu	His	Thr	Arg	Thr	Gln	Glu	Thr	Ile	Arg	Ile	Glu	Pro
		115					120					125			
Lys	Lys	Val	Ile	Ile	Leu	Glu	Gly	Ile	Leu	Leu	Leu	Thr	Asp	Ala	Arg
	130					135					140				
Leu	Arg	Glu	Ser	Met	Asn	Phe	Ser	Ile	Phe	Val	Asp	Thr	Pro	Leu	Asp
145					150					155				160	
Ile	Cys	Leu	Met	Arg	Arg	Ile	Lys	Arg	Asp	Val	Asn	Glu	Arg	Gly	Arg
				165					170					175	

Ser Met Asp Ser Val Met Ala Gln Tyr Gln Lys Thr Val Arg Pro Met
 180 185 190
 Phe Leu Gln Phe Ile Glu Pro Ser Lys Gln Tyr Ala Asp Ile Ile Val
 195 200 205
 Pro Arg Gly Gly Lys Asn Arg Ile Ala Ile Asp Ile Leu Lys Ala Lys
 210 215 220
 Ile Ser Gln Phe Phe Glu
 225 230

<210> 9031

<211> 627

<212> PRT

<213> Enterobacter cloacae

<400> 9031

Arg Leu Ile Cys Glu Phe Thr Glu Glu Ala Met Arg Arg Val Leu Thr
 1 5 10 15
 Thr Leu Met Ile Leu Leu Val Val Leu Val Ala Gly Leu Ser Ala Leu
 20 25 30
 Val Leu Leu Val Asn Pro Asn Asp Phe Arg Ala Tyr Met Val Arg Gln
 35 40 45
 Val Glu Ala Arg Ser Gly Tyr Glu Leu Lys Leu Asp Gly Pro Leu Arg
 50 55 60
 Trp His Val Trp Pro Gln Leu Ser Ile Leu Ser Gly Arg Met Ser Leu
 65 70 75 80
 Thr Ala Pro Gly Ala Ala Gln Pro Leu Val Thr Ala Asp Asn Met Arg
 85 90 95
 Leu Asp Val Ala Leu Ile Pro Leu Leu Ser His Gln Leu Gln Val Glu
 100 105 110
 Gln Val Met Leu Lys Gly Ala Val Ile Gln Leu Thr Pro Gln Thr Glu
 115 120 125
 Ala Val Arg Gln Ala Asp Ala Pro Val Ala Pro Arg Glu Asn Thr Leu
 130 135 140
 Pro Asp Val Pro Ser Asp Thr Gly Trp Ser Phe Asp Ile Gly Asn Leu
 145 150 155 160
 Lys Val Ala Asp Ser Val Leu Val Phe Gln His Glu Asp Asp Glu Gln
 165 170 175
 Ile Thr Val Arg Asn Ile Asn Leu Arg Met Glu Gln Asp Ala Asn His
 180 185 190
 His Ala Thr Met Glu Phe Ser Gly Arg Ile Asn Arg Asn Gln Arg Asp
 195 200 205
 Leu Asn Leu Ser Met Asn Ala Asn Val Asn Ala Ser Asp Tyr Pro His
 210 215 220
 Gln Leu Thr Ala Asp Val Gln Gln Leu Asn Trp Gln Leu Thr Gly Ala
 225 230 235 240
 Asp Leu Pro Ala Lys Gly Ile Ala Gly Gln Gly Thr Met Gln Ala Val
 245 250 255
 Trp His Glu Glu Arg Lys Gln Leu Glu Leu Asn Ala Leu Asn Leu Gln
 260 265 270
 Ala Asn Asp Ser Ser Leu Lys Gly Gln Ala Ser Val Thr Leu Asp Glu
 275 280 285
 Lys Pro Lys Trp Val Leu Asp Leu Gln Phe Asp Lys Leu Asn Leu Glu
 290 295 300
 Asn Leu Leu Pro Leu Gln Pro Val Asn Ala Thr Asp Glu Gly Ala Thr
 305 310 315 320
 Gln Val Gly Gln Ser Gln Ala Thr Gln Ser Arg Pro Val Ile Ser Ser
 325 330 335
 Asn Leu Asp Leu Pro Asp Tyr Asn Gly Leu Arg Gly Phe Thr Ala Asp
 340 345 350
 Ile Leu Leu Lys Ala Asn Ser Val Arg Trp Arg Gly Ile Asp Phe Thr
 355 360 365

Asp Val Ser Ser Gln Met Phe Asn His Asn Gly Leu Leu Val Ile Ser
 370 375 380
 Glu Leu Ser Gly Lys Met Gly Ala Gly Asn Leu Ser Leu Pro Gly Thr
 385 390 395 400
 Leu Asp Val Arg Lys Asp Val Ala Ser Ala Ala Phe Gln Pro Arg Leu
 405 410 415
 Glu Asn Val Glu Ile Gly Thr Ile Leu Lys Ala Phe Asn Tyr Pro Ile
 420 425 430
 Ala Leu Thr Gly Gln Leu Ser Leu Ala Gly Asp Phe Ser Gly Thr Lys
 435 440 445
 Ile Asp Ala Asp Ala Phe Arg Arg Ser Trp Gln Gly Gln Ala His Val
 450 455 460
 Glu Leu Lys Asp Thr Arg Met Glu Gly Leu Asn Phe Gln Gln Leu Val
 465 470 475 480
 Gln Gln Ala Val Glu Arg Ser Ser Ser Val Lys Ala Asn Glu Asn Tyr
 485 490 495
 Asp Ser Ala Thr Arg Leu Asp Ser Phe Thr Ser Glu Leu Ala Leu Asp
 500 505 510
 Asp Gly Gln Leu Ser Leu Asp Asp Met Gln Gly Thr Ser Ser Leu Leu
 515 520 525
 Ala Leu Thr Gly Thr Gly Ala Leu Asp Leu Val Lys Glu Thr Ala Asp
 530 535 540
 Thr Arg Phe Asn Val Arg Val Lys Ala Gly Trp Glu Gly Glu Gly Gln
 545 550 555 560
 Leu Val Glu Phe Leu Lys Glu Thr Pro Ile Pro Leu Arg Val Tyr Gly
 565 570 575
 Lys Trp Gln Ala Leu Asn Tyr Ser Leu Gln Val Asp Gln Ile Leu Arg
 580 585 590
 Lys His Leu Gln Asp Glu Ala Lys Arg Arg Leu Asn Asp Trp Ala Asp
 595 600 605
 Arg Asn Lys Glu Ser Gln Ser Gly Lys Asp Val Lys Lys Leu Leu Asp
 610 615 620
 Lys Leu
 625

<210> 9032

<211> 436

<212> PRT

<213> Enterobacter cloacae

<400> 9032

Arg Asp Asp Trp Arg Arg Gln Arg Gly Ala Gly Gln His Ser Gly Gln
 1 5 10 15
 Arg Ala Gly Gly Gly Arg Glu Ser Pro Arg Glu Gly Asp Lys Met Asn
 20 25 30
 Ile Leu Gln Phe Asn Val Arg Leu Ala Glu Gly Gly Ala Ala Gly Val
 35 40 45
 Ala Leu Asp Leu His Gln Arg Ala Leu Gln Lys Gly Leu Gln Ser Arg
 50 55 60
 Phe Val Tyr Gly Tyr Gly Lys Gly Gly Lys Lys Ser Val Ser His Asp
 65 70 75 80
 Asn Tyr Pro Gln Val Leu Lys Gln Thr Pro Arg Leu Thr Ser Ile Ala
 85 90 95
 Asn Ile Ala Leu Phe Arg Leu Phe Asn Arg Asp Leu Phe Gly Asn Leu
 100 105 110
 Asn Asn Leu Tyr Arg Thr Val Thr Arg Thr Arg Gly Pro Val Val Leu
 115 120 125
 His Phe His Val Leu His Ser Tyr Trp Leu Asn Leu Glu Glu Val Val
 130 135 140
 Ala Phe Cys Gly Lys Val Lys Ala His Lys Pro Asp Thr Arg Phe Val
 145 150 155 160

Trp Thr Leu His Asp His Trp Ser Val Thr Gly Arg Cys Ala Phe Thr
 165 170 175
 Asp Gly Cys Glu Gly Trp Lys Asp Asn Cys Gln Lys Cys Pro Thr Leu
 180 185 190
 Ser Asn Tyr Pro Pro Val Lys Ile Asp Arg Ala His Gln Leu Val Glu
 195 200 205
 Gly Lys Arg Gln Leu Phe Arg Asp Met Leu Ser Leu Gly Cys Thr Phe
 210 215 220
 Ile Ser Pro Ser Gln His Val Ala Asp Ala Phe Asn Ser Leu Tyr Gly
 225 230 235 240
 Ala Gly Arg Cys Gln Ile Ile Asn Asn Gly Ile Asp Val Ala Thr Glu
 245 250 255
 Ala Ile Leu Ala Glu Leu Thr Pro Val Ala Val Thr Ala Gly Lys Pro
 260 265 270
 Lys Ile Ala Val Val Ala His Asp Leu Arg Tyr Asp Gly Lys Thr Asn
 275 280 285
 Gln Gln Leu Val Arg Asp Met Met Ala Leu Gly Asp Lys Ile Glu Leu
 290 295 300
 His Thr Phe Gly Lys Phe Ser Pro Phe Glu Gly Ala Asn Val Val Asn
 305 310 315 320
 His Gly Phe Glu Thr Asp Lys Arg Lys Leu Met Ser Ala Leu Asn Gly
 325 330 335
 Met Asp Ala Leu Val Phe Ser Ser Arg Val Asp Asn Tyr Pro Leu Ile
 340 345 350
 Leu Cys Glu Ala Leu Ser Ile Gly Val Pro Val Ile Ala Thr His Ser
 355 360 365
 Asp Ala Ala Arg Glu Val Leu Glu Lys Ser Gly Gly Lys Thr Phe Ser
 370 375 380
 Glu Asn Glu Val Leu Pro Leu Val Gln Leu Ser Lys Ala Asp Ile Ala
 385 390 395 400
 Gln Ala Val Phe Gly Thr Asp Leu Glu Ser Phe Arg Asn Arg Ser Arg
 405 410 415
 Lys Ala Tyr Ser Gly Gln Gln Met Leu Glu Glu Tyr Val Ser Phe Tyr
 420 425 430
 Gln Asn Leu
 435

<210> 9033

<211> 483

<212> PRT

<213> Enterobacter cloacae

<400> 9033

His Asp Gln Lys Arg Arg Asp Pro Thr Arg Gln Lys Glu Cys Thr Met
 1 5 10 15
 Lys Phe Trp Arg Pro Gly Ile Thr Gly Lys Leu Phe Val Ala Ile Phe
 20 25 30
 Ala Thr Cys Ile Val Leu Leu Ile Thr Met His Trp Ala Val Arg Val
 35 40 45
 Ser Phe Glu Arg Gly Phe Ile Asp Tyr Ile Lys His Gly Asn Glu Gln
 50 55 60
 Arg Leu Gln Gly Leu Ser Asp Ala Leu Gly Glu Gln Tyr Ser Leu His
 65 70 75 80
 Gly Asn Trp Arg Phe Leu Arg Asn Asn Asp Arg Phe Ile Phe Gln Ile
 85 90 95
 Leu Arg Ser Leu Glu His Asp Asn Asp Asp Arg Pro Gly Pro Gly
 100 105 110
 Met Pro Pro His Gly Trp Arg Thr Gln Phe Trp Val Ile Asp Gln Glu
 115 120 125
 Met Arg Val Leu Val Gly Pro Arg Ser Pro Val Pro Pro Asp Gly Thr
 130 135 140

Lys Arg Ala Ile Thr Ser Asn Gly Ala Thr Val Gly Trp Val Ile Ala
 145 150 155 160
 Ser Pro Val Glu Arg Leu Thr Arg Asn Thr Asp Ile Asn Phe Asp Arg
 165 170 175
 Gln Gln Arg Gln Thr Ser Trp Leu Ile Val Ala Leu Ser Thr Leu Leu
 180 185 190
 Ala Ala Leu Ala Thr Phe Pro Leu Ala Arg Gly Leu Leu Ala Pro Val
 195 200 205
 Lys Arg Leu Val Glu Gly Thr His Lys Leu Ala Ala Gly Asp Phe Ser
 210 215 220
 Thr Arg Val Asp Thr Arg Ser Gln Asp Glu Leu Gly Lys Leu Ala Gln
 225 230 235 240
 Asp Phe Asn Gln Leu Ala Ser Thr Leu Glu Lys Asn Gln Gln Met Arg
 245 250 255
 Arg Asp Phe Met Ala Asp Ile Ser His Glu Leu Arg Thr Pro Leu Ala
 260 265 270
 Val Leu Arg Gly Glu Leu Glu Ala Ile Gln Asp Gly Val Arg Gln Phe
 275 280 285
 Thr Pro Glu Ser Val Ala Ser Leu Gln Ala Glu Val Gly Thr Leu Thr
 290 295 300
 Lys Leu Val Asp Asp Leu His Gln Leu Ser Met Ser Asp Glu Gly Ala
 305 310 315 320
 Leu Ala Tyr Gln Lys Ala Pro Ile Asp Val Ile Asn Ile Leu Glu Val
 325 330 335
 Val Thr Gly Ala Phe Arg Glu Arg Phe Ala Ser Arg Asp Leu Lys Ile
 340 345 350
 Asn Leu Ser Leu Pro Asp Ser Ala Val Val Phe Gly Asp Arg Asp Arg
 355 360 365
 Leu Met Gln Leu Phe Asn Asn Leu Leu Glu Asn Ser Leu Arg Tyr Thr
 370 375 380
 Asp Gly Gly Gly Ala Leu His Ile Ser Gly Arg Gln Glu Asn Gly Arg
 385 390 395 400
 Phe Ala Leu Thr Phe Ala Asp Ser Ala Pro Gly Val Lys Asp Ala Gln
 405 410 415
 Leu Glu Lys Leu Phe Glu Arg Phe Tyr Arg Thr Glu Gly Ser Arg Asn
 420 425 430
 Arg Ala Ser Gly Gly Ser Gly Leu Gly Leu Ala Ile Cys Val Asn Ile
 435 440 445
 Val Glu Ala His Gly Gly Thr Ile Arg Ala Ala His Ser Pro Phe Gly
 450 455 460
 Gly Val Ser Ile Thr Val Glu Leu Pro Leu Glu Arg Asp Leu Ser Arg
 465 470 475 480
 Glu Ala

<210> 9034

<211> 1139

<212> PRT

<213> Enterobacter cloacae

<400> 9034

Asn Val Cys Thr Ser Ile Asn Gln Ile Ile Asn Phe Thr Arg Pro Asp
 1 5 10 15
 Leu Ala Pro Asp Asn Met Ala Ser Leu Asp Arg Ala Val Met Asn Lys
 20 25 30
 Gln Tyr Gln Arg Val Leu Val Thr Thr Pro His Pro Leu Arg Leu
 35 40 45
 Val Cys Leu Gly Leu Val Thr Phe Ile Phe Thr Leu Phe Ser Leu Glu
 50 55 60
 Leu Thr Arg Phe Gly Thr Leu Leu Ala Pro Leu Trp Phe Pro Thr Ser
 65 70 75 80

Ile	Met	Met	Val	Ala	Phe	Tyr	Arg	His	Ala	Gly	Lys	Met	Trp	Pro	Gly	
				85					90					95		
Ile	Ala	Leu	Ala	Cys	Ser	Phe	Gly	Asn	Ile	Phe	Ala	Ser	Trp	Met	Leu	
			100					105					110			
Phe	Ser	Trp	Glu	Ser	Leu	Asn	Ile	Thr	Tyr	Thr	Ala	Ile	Asn	Ile	Ile	
		115					120					125				
Glu	Ala	Thr	Val	Gly	Ala	Leu	Leu	Leu	Arg	Lys	Leu	Leu	Pro	Trp	Tyr	
		130				135					140					
Asn	Pro	Leu	Gln	Asn	Leu	Asn	Asp	Trp	Val	Arg	Leu	Ala	Leu	Gly	Ser	
145					150					155					160	
Ala	Leu	Val	Pro	Pro	Leu	Val	Gly	Gly	Val	Leu	Val	His	Phe	Leu	Val	
			165						170					175		
Pro	Ser	Ala	Glu	Pro	Leu	Arg	Asn	Phe	Leu	Val	Trp	Val	Leu	Ser	Glu	
			180					185					190			
Ala	Ile	Gly	Ala	Leu	Ala	Leu	Val	Pro	Leu	Gly	Leu	Leu	Phe	Lys	Pro	
		195					200					205				
His	Tyr	Leu	Leu	Arg	His	Arg	Asn	Pro	Lys	Leu	Leu	Leu	Glu	Thr	Leu	
	210					215						220				
Val	Thr	Leu	Val	Val	Thr	Leu	Val	Leu	Cys	Trp	Thr	Ala	Ile	Thr	Trp	
225					230					235					240	
Leu	Pro	Trp	Pro	Phe	Thr	Cys	Ile	Ile	Val	Leu	Leu	Met	Trp	Ser	Ala	
			245						250					255		
Val	Arg	Leu	Pro	Arg	Met	Glu	Ala	Phe	Leu	Ile	Phe	Leu	Phe	Thr	Ile	
		260					265						270			
Met	Met	Val	Ser	Leu	Met	Met	Ala	Arg	Asn	Pro	Leu	Ser	Met	Thr	Pro	
		275					280					285				
Ser	Ser	Met	Ile	Val	Thr	Phe	Asn	Ala	Pro	Trp	Leu	Pro	Phe	Leu	Met	
	290					295					300					
Met	Leu	Leu	Pro	Ala	Asn	Ile	Met	Thr	Met	Val	Met	Tyr	Ala	Phe	Arg	
305					310					315					320	
Ala	Glu	Arg	Lys	His	Ile	Thr	Glu	Ser	Glu	Glu	Arg	Phe	Arg	Asn	Ala	
			325						330					335		
Met	Glu	Tyr	Ser	Ala	Ile	Gly	Met	Ala	Leu	Val	Gly	Ile	Glu	Gly	Gln	
		340					345						350			
Trp	Leu	Gln	Ala	Asn	Lys	Ala	Leu	Cys	Asn	Phe	Leu	Gly	Tyr	Ser	Gln	
	355					360						365				
Ser	Glu	Leu	Gln	Ser	Leu	Thr	Phe	Gln	Gln	Leu	Thr	Trp	Pro	Glu	Asp	
	370					375					380					
Leu	Asn	Thr	Asp	Leu	Glu	Gln	Leu	Gly	Gln	Leu	Ile	Asn	Gly	Glu	Ile	
385					390					395					400	
Asn	Ser	Tyr	Ser	Leu	Glu	Lys	Arg	Tyr	Tyr	Thr	Arg	Ser	Gly	Ala	Val	
			405						410					415		
Val	Trp	Ala	Leu	Leu	Ala	Val	Ser	Val	Val	Arg	His	Ala	Asp	Gly	Thr	
		420						425					430			
Pro	Leu	Tyr	Phe	Ile	Ala	Gln	Ile	Glu	Asp	Ile	Asn	Asp	Leu	Lys	Gln	
		435					440					445				
Thr	Glu	Trp	Val	Asn	Lys	Arg	Leu	Met	Glu	Arg	Ile	Thr	Leu	Ala	Asn	
	450					455						460				
Glu	Ala	Gly	Gly	Ile	Gly	Ile	Trp	Glu	Trp	Asp	Leu	Glu	Pro	Asp	Val	
465					470					475					480	
Ile	Ser	Trp	Asp	Lys	Arg	Met	Phe	Glu	Leu	Tyr	Glu	Ile	Pro	Thr	His	
			485						490					495		
Ile	Lys	Pro	Thr	Trp	Gln	Leu	Trp	His	Ala	Ala	Met	Val	Pro	Glu	Asp	
		500						505					510			
Arg	Thr	His	Ala	Glu	Gln	Val	Leu	Arg	Glu	Ser	Leu	Gln	Ala	Arg	Val	
	515						520					525				
Pro	Phe	Lys	Leu	Glu	Phe	Arg	Ile	Arg	Val	Lys	Asp	Gly	Ile	Arg	His	
	530					535					540					
Ile	Arg	Ser	Leu	Ala	Asn	Arg	Val	Leu	Asn	Lys	Gln	Gly	Glu	Val	Glu	
545					550					555					560	
Arg	Leu	Leu	Gly	Ile	Asn	Met	Asp	Met	Thr	Glu	Val	Lys	Gln	Leu	Asn	

															565			570			575		
Glu	Ala	Leu	Phe	Gln	Glu	Lys	Glu	Arg	Leu	His	Ile	Thr	Leu	Asp	Ser								
															580			585			590		
Ile	Gly	Glu	Ala	Leu	Leu	Cys	Thr	Asp	Ile	Asp	Met	Asn	Ile	Thr	Phe								
															595			600			605		
Met	Asn	Pro	Val	Ala	Glu	Lys	Met	Ser	Gly	Trp	Ser	Gln	Ser	Glu	Ala								
															610			615			620		
Leu	Gly	Gln	Pro	Val	Leu	Lys	Val	Leu	His	Ile	Thr	Phe	Gly	Glu	Asn								
															625			630			635		
Gly	Pro	Leu	Met	Glu	Asn	Ile	His	Ser	Gly	Asp	Met	Ser	Arg	Thr	Asp								
															645			650			655		
Ile	Glu	Gln	Asp	Val	Val	Leu	Asn	Cys	Arg	Asn	Gly	Gly	Ser	Phe	Asp								
															660			665			670		
Ile	His	Tyr	Ser	Ile	Thr	Pro	Leu	Ser	Thr	Leu	Glu	Gly	Asn	Thr	Ile								
															675			680			685		
Gly	Ser	Val	Leu	Val	Ile	Gln	Asp	Val	Thr	Glu	Ser	Arg	Lys	Met	Leu								
															690			695			700		
Arg	Gln	Leu	Ser	Tyr	Ser	Ala	Ser	His	Asp	Ala	Leu	Thr	His	Leu	Ala								
															705			710			715		
Asn	Arg	Val	Ser	Phe	Glu	Asn	His	Leu	Lys	Arg	Leu	Leu	Gln	Thr	Val								
															725			730			735		
Gln	Glu	Thr	His	Gln	His	His	Ala	Leu	Val	Phe	Ile	Asp	Leu	Asp	Arg								
															740			745			750		
Phe	Lys	Ala	Val	Asn	Asp	Thr	Ala	Gly	His	Ala	Ala	Gly	Asp	Ala	Leu								
															755			760			765		
Leu	Arg	Glu	Leu	Ser	Ser	Leu	Met	Leu	Thr	Met	Leu	Arg	Ser	Ser	Asp								
															770			775			780		
Val	Leu	Ala	Arg	Leu	Gly	Gly	Asp	Glu	Phe	Gly	Leu	Leu	Leu	Pro	Asp								
															785			790			795		
Cys	Asn	Val	Glu	Ser	Ala	Arg	Tyr	Ile	Ala	Gly	Arg	Leu	Ile	Asp	Ala								
															805			810			815		
Ile	Asn	Asn	Tyr	His	Phe	Ser	Trp	Glu	Gly	Arg	Leu	His	Arg	Ile	Gly								
															820			825			830		
Ala	Ser	Ala	Gly	Ile	Thr	Leu	Ile	Asp	Asp	Thr	Asn	Tyr	Gln	Ala	Ala								
															835			840			845		
Glu	Val	Met	Ser	Gln	Ala	Asp	Ile	Ala	Cys	Tyr	Ala	Ser	Lys	Asn	Ser								
															850			855			860		
Gly	Arg	Gly	Val	Val	Thr	Val	Tyr	Glu	Pro	Gln	Gln	Glu	Arg	Ile	His								
															865			870			875		
Ser	Thr	Arg	Ser	Met	Met	Ser	Leu	Asp	Glu	Gln	Trp	His	Met	Ile	Lys								
															885			890			895		
Asp	Asn	His	Leu	Leu	Met	Ile	Ala	Arg	Ser	Val	Ala	Ser	Pro	Arg	Ile								
															900			905			910		
Pro	Glu	Ser	Ser	Ser	Phe	Trp	Leu	Ile	Ser	Leu	Arg	Leu	Trp	Thr	Ser								
															915			920			925		
Gln	Gly	Glu	Val	Leu	Glu	Glu	His	Ala	Phe	Arg	Ala	Gly	Leu	Ala	Glu								
															930			935			940		
Pro	Glu	Leu	Leu	His	Ala	Leu	Asp	Arg	Arg	Ile	Phe	Ser	Glu	Phe	Phe								
															945			950			955		
Arg	Thr	Tyr	Ala	Ala	Gln	Val	Ala	Ala	Lys	Gly	Met	Gly	Val	Ala	Leu								
															965			970			975		
Pro	Leu	Ser	Glu	Ala	Gly	Leu	Ala	Ser	Val	Thr	Leu	Val	Asp	Glu									

Asp Tyr Leu Leu Leu Asp Ala Asp Val Val Thr Asn Val His Gly Asn
 1060 1065 1070
 Leu Met Asp Glu Met Met Val Thr Ile Ile Gln Gly His Ala Gln Arg
 1075 1080 1085
 Leu Gly Ile Lys Thr Ile Ala Gly Pro Cys His Gln Ser Ile Met Met
 1090 1095 1100
 Asn Thr Leu Ser Gly Ile Gly Val Asp Phe Ile Tyr Gly Asp Thr Ile
 1105 1110 1115 1120
 Gly Glu Ala Gln Pro Leu Asp Leu Leu Leu Asn Thr Ser Tyr Phe Ala
 1125 1130 1135
 Ile Asn

<210> 9035

<211> 1062

<212> PRT

<213> Enterobacter cloacae

<400> 9035

Pro Ala Asp Arg Arg Gly Ala Gly Arg Gly Gly Gly Ser Ala Glu Tyr
 1 5 10 15
 Arg Ser Lys Ser Leu Met Gln Val Met Pro Pro Ser Ser Thr Gly Gly
 20 25 30
 Pro Ser Arg Leu Phe Ile Leu Arg Pro Val Ala Thr Thr Leu Leu Met
 35 40 45
 Val Ala Ile Leu Leu Ala Gly Ile Ile Gly Tyr Arg Phe Leu Pro Val
 50 55 60
 Ser Ala Leu Pro Glu Val Asp Tyr Pro Thr Ile Gln Val Val Thr Leu
 65 70 75 80
 Tyr Pro Gly Ala Ser Pro Asp Val Val Thr Ser Ala Ile Thr Ala Pro
 85 90 95
 Leu Glu Arg Gln Phe Gly Gln Met Ser Gly Leu Lys Gln Met Ser Ser
 100 105 110
 Gln Ser Ser Gly Gly Ala Ser Val Val Thr Leu Gln Phe Gln Leu Ala
 115 120 125
 Leu Ser Leu Asp Val Ala Glu Gln Glu Val Gln Ala Ala Ile Asn Ala
 130 135 140
 Ala Thr Asn Leu Leu Pro Ser Asp Leu Pro Asn Pro Pro Val Tyr Ser
 145 150 155 160
 Lys Val Asn Pro Ala Asp Pro Pro Ile Met Thr Leu Ala Val Thr Ser
 165 170 175
 Ser Ala Met Pro Met Thr Gln Val Glu Asp Met Val Glu Thr Arg Val
 180 185 190
 Ala Gln Lys Ile Ser Gln Val Thr Gly Val Gly Leu Val Thr Leu Ala
 195 200 205
 Gly Gly Gln Arg Pro Ala Val Arg Val Lys Leu Asn Ala Gln Ala Ile
 210 215 220
 Ala Ala Leu Gly Leu Thr Ser Glu Thr Ile Arg Thr Ala Ile Ser Ser
 225 230 235 240
 Ala Asn Val Asn Ser Ala Lys Gly Ser Leu Asp Gly Pro Thr Arg Ala
 245 250 255
 Val Thr Leu Ser Ala Asn Asp Gln Met Gln Ser Ala Asp Glu Tyr Arg
 260 265 270
 Gln Leu Ile Ile Ala Tyr Gln Asn Gly Ala Pro Ile Arg Leu Gly Asp
 275 280 285
 Val Ala Thr Val Glu Gln Gly Ala Glu Asn Ser Trp Leu Gly Ala Trp
 290 295 300
 Ala Asn Lys Gln Gln Ala Ile Val Met Asn Val Gln Arg Gln Pro Gly
 305 310 315 320
 Ala Asn Ile Ile Asp Thr Ala Asp Ser Ile Arg Thr Met Leu Pro Gln
 325 330 335

Leu Val Glu Ser Leu Pro Lys Ser Val Ser Val Lys Val Leu Ser Asp
 340 345 350
 Arg Thr Thr Asn Ile Arg Ala Ser Val Thr Asp Thr Gln Phe Glu Leu
 355 360 365
 Met Leu Ala Ile Ala Leu Val Val Met Ile Ile Tyr Leu Phe Leu Arg
 370 375 380
 Asn Val Pro Ala Thr Ile Ile Pro Ala Val Ala Val Pro Leu Ser Leu
 385 390 395 400
 Val Gly Thr Phe Ala Val Met Val Phe Leu Asp Phe Ser Ile Asn Asn
 405 410 415
 Leu Thr Leu Met Ala Leu Thr Ile Ala Thr Gly Phe Val Val Asp Asp
 420 425 430
 Ala Ile Val Val Ile Glu Asn Ile Ser Arg Tyr Ile Glu Lys Gly Glu
 435 440 445
 Lys Pro Leu Ala Ala Ala Leu Lys Gly Ala Gly Glu Ile Gly Phe Thr
 450 455 460
 Ile Ile Ser Leu Thr Phe Ser Leu Ile Ala Val Leu Ile Pro Leu Leu
 465 470 475 480
 Phe Met Gly Asp Ile Val Gly Arg Leu Phe Arg Glu Phe Ala Val Thr
 485 490 495
 Leu Ala Val Ala Ile Leu Ile Ser Ala Val Val Ser Leu Thr Leu Thr
 500 505 510
 Pro Met Met Cys Ala Arg Met Leu Ser His Glu Ser Leu Arg Lys Gln
 515 520 525
 Asn Arg Phe Ser Leu Ala Ser Glu Arg Met Phe Glu Arg Ile Ile Ala
 530 535 540
 Ala Tyr Gly Arg Val Leu Ala Lys Val Leu Asn His Pro Trp Ala Thr
 545 550 555 560
 Leu Gly Val Ala Leu Gly Thr Leu Ala Leu Ser Val Met Leu Trp Ile
 565 570 575
 Phe Ile Pro Lys Gly Phe Phe Pro Ile Gln Asp Asn Gly Ile Ile Gln
 580 585 590
 Gly Thr Leu Gln Ala Pro Gln Thr Val Ser Phe Ala Asn Met Ala Gln
 595 600 605
 Arg Gln Gln Gln Val Ser Glu Ile Ile Met Lys Asp Pro Ala Val Glu
 610 615 620
 Ser Leu Thr Ala Tyr Val Gly Val Asp Gly Thr Asn Pro Ser Leu Asn
 625 630 635 640
 Ser Ala Arg Leu Gln Ile Asn Leu Lys Pro Leu Asp Asp Arg Asp Asp
 645 650 655
 Arg Val Asn Ala Val Ile Glu Arg Leu Gln Ser Ala Val Ala Arg Val
 660 665 670
 Pro Gly Ile Glu Leu Tyr Leu Gln Pro Ile Gln Asp Leu Thr Ile Asp
 675 680 685
 Thr Gln Val Ser Arg Thr Gln Tyr Gln Phe Thr Leu Gln Ala Thr Ser
 690 695 700
 Leu Asp Ala Leu Ser Thr Trp Val Pro Gln Leu Val Asp Lys Leu Lys
 705 710 715 720
 Ala Leu Pro Gln Ile Ser Asp Val Ser Ser Asp Trp Gln Asp Lys Gly
 725 730 735
 Leu Ala Ala Tyr Val Asn Val Asn Arg Asp Thr Ala Ser Arg Leu Gly
 740 745 750
 Ile Thr Met Ser Asp Val Asp Asn Ala Leu Tyr Asn Ala Phe Gly Gln
 755 760 765
 Arg Leu Ile Ser Thr Ile Tyr Thr Gln Ala Asn Gln Tyr Arg Val Val
 770 775 780
 Leu Glu His Asn Thr Glu Asn Thr Pro Gly Leu Ala Ala Leu Asp Ser
 785 790 795 800
 Ile Arg Leu Thr Ser Lys Asp Gly Gly Ile Val Pro Leu Ser Ala Ile
 805 810 815
 Ala Ser Val Glu Glu Arg His Thr Pro Leu Ser Ile Asn His Leu Asp

										820						825						830		
Gln	Phe	Pro	Ser	Thr	Thr	Ile	Ser	Phe	Asn	Val	Pro	Asp	Gly	Tyr	Ser									
															835			840			845			
Leu	Gly	Glu	Ala	Val	Glu	Ala	Ile	Leu	Gly	Ala	Glu	Lys	Glu	Leu	Ser									
															850			855			860			
Phe	Pro	Ser	Asp	Ile	Gln	Thr	Gln	Phe	Gln	Gly	Ser	Thr	Leu	Ala	Phe									
															865			870			875			
Gln	Ala	Ala	Leu	Gly	Ser	Thr	Val	Trp	Leu	Ile	Val	Ala	Ala	Val	Val									
															885			890			895			
Ala	Met	Tyr	Ile	Val	Leu	Gly	Val	Leu	Tyr	Glu	Ser	Phe	Ile	His	Pro									
															900			905			910			
Ile	Thr	Ile	Leu	Ser	Thr	Leu	Pro	Thr	Ala	Gly	Val	Gly	Ala	Leu	Leu									
															915			920			925			
Ala	Leu	Met	Leu	Ala	Gly	Ser	Glu	Leu	Asp	Val	Ile	Ala	Ile	Ile	Gly									
															930			935			940			
Ile	Ile	Leu	Leu	Ile	Gly	Ile	Val	Lys	Lys	Asn	Ala	Ile	Met	Met	Ile									
															945			950			955			
Asp	Phe	Ala	Leu	Ala	Ala	Glu	Arg	Glu	Gln	Gly	Met	Ala	Pro	Arg	Glu									
															965			970			975			
Ala	Ile	Tyr	Gln	Ala	Cys	Leu	Leu	Arg	Phe	Arg	Pro	Ile	Leu	Met	Thr									
															980			985			990			
Thr	Leu	Ala	Ala	Leu	Leu	Gly	Ala	Leu	Pro	Leu	Met	Leu	Ser	Thr	Gly									
															995			1000			1005			
Val	Gly	Ala	Glu	Leu	Arg	Arg	Pro	Leu	Gly	Ile	Gly	Met	Val	Gly	Gly									
															1010			1015			1020			
Leu	Leu	Val	Ser	Gln	Val	Leu	Thr	Leu	Phe	Thr	Thr	Pro	Val	Ile	Tyr									
															1025			1030			1035			
Leu	Leu	Phe	Asp	Arg	Leu	Ala	Leu	Trp	Thr	Lys	Ser	Arg	Phe	Pro	Lys									
															1045			1050			1055			
Arg	Glu	Glu	Glu	Ala																				
															1060									

<210> 9036

<211> 1026

<212> PRT

<213> Enterobacter cloacae

<400> 9036

Val	Lys	Phe	Phe	Ala	Leu	Phe	Ile	Tyr	Arg	Pro	Val	Ala	Thr	Ile	Leu									
1																5			10			15		
Leu	Ser	Val	Ala	Ile	Thr	Leu	Cys	Gly	Val	Leu	Gly	Phe	Arg	Leu	Leu									
															20			25			30			
Pro	Val	Ala	Pro	Leu	Pro	Gln	Val	Asp	Phe	Pro	Val	Ile	Met	Val	Ser									
															35			40			45			
Ala	Ser	Leu	Pro	Gly	Ala	Ser	Pro	Glu	Thr	Met	Ala	Ser	Ser	Val	Ala									
															50			55			60			
Thr	Pro	Leu	Glu	Arg	Ser	Leu	Gly	Arg	Ile	Ala	Gly	Val	Asn	Glu	Met									
															65			70			75			
Thr	Ser	Ser	Ser	Ser	Leu	Gly	Ser	Thr	Arg	Ile	Ile	Leu	Glu	Phe	Asn									
															85			90			95			
Phe	Asp	Arg	Asp	Ile	Asn	Gly	Ala	Ala	Arg	Asp	Val	Gln	Ala	Ala	Ile									
															100			105			110			
Asn	Ala	Ala	Gln	Ser	Leu	Leu	Pro	Ser	Gly	Met	Pro	Ser	Arg	Pro	Thr									
															115			120			125			
Tyr	Arg	Lys	Ala	Asn	Pro	Ser	Asp	Ala	Pro	Ile	Met	Ile	Leu	Thr	Leu									
															130			135			140			
Thr	Ser	Glu	Thr	Tyr	Ser	Gln	Gly	Glu	Leu	Tyr	Asp	Phe	Ala	Ser	Thr									
															145			150			155			
Gln	Leu	Ala	Gln	Thr	Ile	Ala	Gln	Ile	Asp	Gly	Val	Gly	Asp	Val	Asp									
															165			170			175			
Val	Gly	Gly	Ser	Ser	Leu	Pro	Ala	Val	Arg	Val	Gly	Leu	Asn	Pro	Gln									

Leu Arg Glu Trp Glu Pro Lys Ile Arg Lys Ala Leu Ala Ala Leu Pro
 675 680 685
 Gln Leu Ala Asp Val Asn Ser Asp Ser Gln Asn Asn Gly Ala Glu Met
 690 695 700
 Ala Leu Thr Tyr Asp Arg Glu Thr Met Ala Arg Leu Gly Ile Asn Val
 705 710 715 720
 Glu Ala Ala Asn Ser Leu Leu Asn Asn Ala Phe Gly Gln Arg Glu Val
 725 730 735
 Ser Thr Ile Tyr Gln Pro Met Asn Gln Tyr Lys Val Val Met Glu Val
 740 745 750
 Asp Pro Arg Tyr Thr Gln Asp Ile Ser Ala Leu Asp Lys Met Phe Val
 755 760 765
 Ile Asn Asp Asp Gly Lys Ala Ile Pro Leu Ser Tyr Phe Ala Ser Trp
 770 775 780
 Gln Pro Ser Asn Ala Pro Leu Ser Val Asn His Gln Gly Leu Ser Ala
 785 790 795 800
 Ala Ser Thr Val Ser Phe Asn Leu Pro Thr Gly Ser Ser Leu Ser Glu
 805 810 815
 Ala Ser Asp Ala Ile Asn Arg Ala Met Thr Gln Leu Gly Val Pro Ser
 820 825 830
 Ser Val Arg Gly Ser Phe Ala Gly Thr Ala Gln Val Phe Gln Asp Thr
 835 840 845
 Met Asn Ser Gln Val Ile Leu Ile Leu Ala Ala Ile Ala Thr Val Tyr
 850 855 860
 Ile Val Leu Gly Val Leu Tyr Glu Ser Tyr Val His Pro Leu Thr Ile
 865 870 875 880
 Leu Ser Thr Leu Pro Ser Ala Gly Val Gly Ala Leu Leu Ala Leu Glu
 885 890 895
 Leu Phe Gly Ala Pro Phe Ser Leu Ile Ala Leu Ile Gly Ile Met Leu
 900 905 910
 Leu Ile Gly Ile Val Lys Lys Asn Ala Ile Met Met Val Asp Phe Ala
 915 920 925
 Leu Asp Ala Gln Arg Asn Gly Asn Leu Thr Pro Asp Glu Ala Ile Phe
 930 935 940
 Gln Ala Cys Leu Leu Arg Phe Arg Pro Ile Met Met Thr Thr Leu Ala
 945 950 955 960
 Ala Leu Phe Gly Ala Leu Pro Leu Val Ile Ser Gly Gly Asp Gly Ser
 965 970 975
 Glu Leu Arg Gln Pro Leu Gly Ile Thr Ile Val Gly Gly Leu Val Met
 980 985 990
 Ser Gln Leu Leu Thr Leu Tyr Thr Thr Pro Val Val Tyr Leu Phe Phe
 995 1000 1005
 Asp Arg Leu Arg Leu Arg Phe Ser Arg Lys Lys Arg Thr Thr Val Thr
 1010 1015 1020
 Glu
 1025

<210> 9037

<211> 472

<212> PRT

<213> Enterobacter cloacae

<400> 9037

Met Thr Asp Leu Pro Ser Asn Val Arg Trp Gln Leu Trp Ile Val Ala
 1 5 10 15
 Phe Gly Phe Phe Met Gln Ser Leu Asp Thr Thr Ile Val Asn Thr Ala
 20 25 30
 Leu Pro Ser Met Ala Lys Ser Leu Gly Glu Ser Pro Leu His Met His
 35 40 45
 Met Val Ile Val Ala Tyr Val Leu Thr Val Ala Val Met Leu Pro Ala
 50 55 60

Ser Gly Trp Leu Ala Asp Lys Val Gly Val Arg Asn Ile Phe Phe Thr
 65 70 75 80
 Ala Ile Val Leu Phe Thr Thr Gly Ser Leu Phe Cys Ala Gln Ala Asn
 85 90 95
 Thr Leu Asp Gln Leu Val Met Ala Arg Val Leu Gln Gly Val Gly Gly
 100 105 110
 Ala Met Met Val Pro Val Gly Arg Leu Thr Val Met Lys Ile Val Pro
 115 120 125
 Arg Ala Gln Tyr Met Ala Ala Met Thr Phe Val Thr Leu Pro Gly Gln
 130 135 140
 Val Gly Pro Leu Leu Gly Pro Ala Leu Gly Gly Ile Leu Val Glu Tyr
 145 150 155 160
 Ala Ser Trp His Trp Ile Phe Leu Ile Asn Leu Pro Val Gly Ile Ile
 165 170 175
 Gly Ala Ile Ala Thr Leu Thr Leu Met Pro Asn Tyr Lys Met Gln Thr
 180 185 190
 Arg Arg Phe Asp Phe Phe Gly Phe Ile Leu Leu Ala Ala Gly Met Ala
 195 200 205
 Thr Leu Thr Leu Ala Leu Asp Gly Gln Lys Gly Leu Gly Ile Ser Ser
 210 215 220
 Leu Ser Leu Ala Leu Leu Val Ala Leu Gly Val Thr Ala Ile Leu Trp
 225 230 235 240
 Tyr Leu Trp His Ala Arg Gly Asn Ala Asn Ala Leu Phe Ser Leu Asn
 245 250 255
 Leu Phe Lys Asn Pro Thr Tyr Arg Leu Gly Leu Phe Gly Ser Phe Ala
 260 265 270
 Gly Arg Ile Gly Ser Gly Met Leu Pro Phe Met Thr Pro Val Phe Leu
 275 280 285
 Gln Ile Gly Met Gly Phe Ser Pro Phe His Ala Gly Leu Met Met Ile
 290 295 300
 Pro Met Val Leu Gly Ser Met Gly Met Lys Arg Ile Val Val Gln Val
 305 310 315 320
 Val Asn Arg Phe Gly Tyr Arg Arg Val Leu Val Ala Ala Thr Ile Gly
 325 330 335
 Leu Ala Leu Val Cys Leu Leu Phe Met Ala Val Ala Leu Leu Gly Trp
 340 345 350
 Tyr Tyr Ile Leu Pro Leu Val Leu Phe Cys Gln Gly Ile Ile Asn Ser
 355 360 365
 Met Arg Phe Ser Ser Met Asn Thr Leu Thr Leu Lys Asp Leu Pro Asp
 370 375 380
 Glu Leu Ala Ser Ser Gly Asn Ser Leu Leu Ser Met Ile Met Gln Leu
 385 390 395 400
 Ser Met Ser Val Gly Val Thr Val Ala Gly Leu Leu Leu Gly Met Tyr
 405 410 415
 Gly Gln His His Leu Ser Ala Asp Thr Pro Val Ala His Gln Val Phe
 420 425 430
 Leu Tyr Thr Tyr Leu Ser Met Ala Val Ile Ile Ala Leu Pro Ala Phe
 435 440 445
 Ile Phe Ala Arg Val Pro Asn Asp Thr Thr Lys Asn Val Val Ile Arg
 450 455 460
 Arg Gly Lys Arg Ser Ala Pro
 465 470

<210> 9038

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 9038

Leu Ser Arg Phe Leu Pro Cys Leu Arg Arg Ser Pro Pro Ser Arg Trp
 1 5 10 15

Arg Ala Ala Cys Trp Arg Arg Leu Ser Ala Trp Trp Lys Ala Arg Thr
 20 25 30
 Ser Trp Arg Arg Val Ile Ser Arg Pro Ala Trp Thr Pro Ala Ala Arg
 35 40 45
 Met Asn Trp Ala Ser Trp Arg Arg Thr Ser Thr Ser Ser Pro Ala Arg
 50 55 60
 Trp Lys Lys Thr Ser Arg Cys Ala Ala Ile Leu Trp Pro Thr Phe Arg
 65 70 75 80
 Thr Ser Cys Ala Pro Arg Trp Arg Cys Cys Ala Ala Ser Trp Arg Arg
 85 90 95
 Phe Arg Thr Ala Cys Gly Ser Ser Pro Ser Arg Trp Pro Arg Phe
 100 105 110
 Arg Arg Lys Ser Val Arg
 115

<210> 9039

<211> 462

<212> PRT

<213> Enterobacter cloacae

<400> 9039

Pro Val Ile Arg Thr Arg Thr Asn Met Phe Lys Pro Glu Leu Leu Ser
 1 5 10 15
 Pro Ala Gly Thr Leu Gln Asn Met Arg Tyr Ala Phe Ala Tyr Gly Ala
 20 25 30
 Asp Ala Val Tyr Ala Gly Gln Pro Arg Tyr Ser Leu Arg Val Arg Asn
 35 40 45
 Asn Glu Phe Asn His Glu Asn Leu Gln Leu Gly Ile Asn Glu Ala His
 50 55 60
 Ala Leu Gly Lys Lys Phe Tyr Val Val Val Asn Ile Ala Pro His Asn
 65 70 75 80
 Ala Lys Leu Lys Thr Phe Ile Arg Asp Leu Lys Pro Val Val Glu Met
 85 90 95
 Gly Pro Asp Ala Leu Ile Met Ser Asp Pro Gly Leu Ile Met Leu Val
 100 105 110
 Arg Glu Asn Phe Pro Glu Met Asp Ile His Leu Ser Val Gln Ala Asn
 115 120 125
 Ala Val Asn Trp Ala Thr Val Lys Phe Trp Lys Gln Met Gly Leu Thr
 130 135 140
 Arg Val Ile Leu Ser Arg Glu Leu Ser Leu Glu Glu Ile Glu Glu Ile
 145 150 155 160
 Arg Thr Gln Val Pro Asp Met Glu Ile Glu Ile Phe Val His Gly Ala
 165 170 175
 Leu Cys Met Ala Tyr Ser Gly Arg Cys Leu Leu Ser Gly Tyr Ile Asn
 180 185 190
 Lys Arg Asp Pro Asn Gln Gly Thr Cys Thr Asn Ala Cys Arg Trp Glu
 195 200 205
 Tyr Asn Val Gln Glu Gly Lys Glu Asp Asp Ile Gly Asn Ile Val His
 210 215 220
 Lys His Glu Pro Ile Pro Val Thr Asn Val Glu Pro Thr Leu Gly Ile
 225 230 235 240
 Gly Ala Pro Thr Asp Ser Val Phe Met Ile Glu Glu Ala Lys Arg Pro
 245 250 255
 Gly Glu Tyr Met Thr Ala Phe Glu Asp Glu His Gly Thr Tyr Ile Met
 260 265 270
 Asn Ser Lys Asp Leu Arg Ala Ile Ala His Val Glu Arg Leu Thr Lys
 275 280 285
 Met Gly Val His Ser Leu Lys Ile Glu Gly Arg Thr Lys Ser Tyr Tyr
 290 295 300
 Tyr Cys Ala Arg Thr Ala Gln Val Tyr Arg Lys Ala Ile Asp Asp Ala
 305 310 315 320

Ala Ala Gly Lys Pro Phe Asp Thr Ser Leu Leu Glu Thr Leu Glu Gly
 325 330 335
 Leu Ala His Arg Gly Tyr Thr Glu Gly Phe Leu Arg Arg His Thr His
 340 345 350
 Asp Asp Tyr Gln Asn Tyr Glu His Gly Tyr Ser Ile Ser Glu Arg Gln
 355 360 365
 Gln Phe Val Gly Asp Phe Thr Gly Glu Arg Lys Gly Pro Leu Ala Ala
 370 375 380
 Val Ala Val Lys Asn Lys Phe Thr Lys Gly Asp Ser Leu Glu Leu Met
 385 390 395 400
 Thr Pro Gln Gly Asn Met Asn Phe Arg Leu Glu His Leu Glu Asn Lys
 405 410 415
 Lys Gly Glu Ala Ile Glu Val Ala Pro Gly Asp Gly His Val Val Trp
 420 425 430
 Leu Pro Val Pro Glu Glu Val Glu Leu Glu Phe Ala Leu Leu Met Arg
 435 440 445
 Asn Phe Glu Gly Glu Asn Thr Arg Asn Pro His Gly Lys
 450 455 460

<210> 9040

<211> 543

<212> PRT

<213> Enterobacter cloacae

<400> 9040

Ser Lys Cys Asp Ile Ser His Ile Thr Glu Gly Ile Ala Phe Thr Met
 1 5 10 15
 Glu Trp Ile Ala Asp Pro Ser Ile Trp Ala Gly Leu Val Thr Leu Val
 20 25 30
 Val Ile Glu Leu Val Leu Gly Ile Asp Asn Leu Val Phe Ile Ala Ile
 35 40 45
 Leu Ala Asp Lys Leu Pro Pro Ser Gln Arg Asp Arg Ala Arg Val Thr
 50 55 60
 Gly Leu Leu Leu Ala Met Val Met Arg Leu Leu Leu Leu Ala Ser Ile
 65 70 75 80
 Ser Trp Leu Val Thr Leu Thr Lys Pro Leu Phe Ser Val Gln Gly Leu
 85 90 95
 Ser Phe Ser Ala Arg Asp Leu Ile Met Leu Phe Gly Gly Leu Phe Leu
 100 105 110
 Leu Phe Lys Ala Thr Val Glu Leu Asn Glu Arg Leu Glu Gly Lys Asp
 115 120 125
 Ser Glu Asn Pro Thr Gln Arg Arg Gly Ala Lys Phe Trp Pro Val Val
 130 135 140
 Ala Gln Ile Val Val Leu Asp Ala Val Phe Ser Leu Asp Ser Val Ile
 145 150 155 160
 Thr Ala Val Gly Met Val Asp His Leu Ala Val Met Met Ala Ala Val
 165 170 175
 Ile Ile Ala Ile Thr Leu Met Val Leu Ala Ser Lys Ala Leu Thr Arg
 180 185 190
 Phe Val Asn Ser His Pro Thr Ile Val Ile Leu Cys Leu Ser Phe Leu
 195 200 205
 Leu Met Ile Gly Phe Ser Leu Val Ala Asp Gly Phe Gly Phe His Ile
 210 215 220
 Pro Lys Gly Tyr Leu Tyr Ala Ala Ile Gly Phe Ser Val Leu Ile Glu
 225 230 235 240
 Phe Leu Asn Gln Leu Ala Ile Phe Asn Arg Arg Arg Phe Leu Ser Ala
 245 250 255
 Asn Gln Thr Leu Arg Gln Arg Thr Ala Asp Thr Val Met Arg Leu Leu
 260 265 270
 Ser Gly Lys Lys Glu Asp Ala Glu Leu Asp Ala Glu Ser Ala Ala Met
 275 280 285

Leu	Ala	Asp	His	Ser	Asp	Gly	Gln	Ile	Phe	Asn	Pro	Gln	Glu	Arg	Arg		
	290					295					300						
Met	Ile	Glu	Arg	Val	Leu	Asn	Leu	Asn	Gln	Arg	Thr	Val	Ser	Ser	Ile		
305					310					315					320		
Met	Thr	Ser	Arg	His	Asp	Ile	Glu	His	Ile	Asp	Leu	Thr	Ala	Pro	Glu		
				325					330					335			
Glu	Gln	Ile	Arg	Ala	Leu	Leu	Asp	Lys	Asn	Gln	His	Thr	Arg	Val	Val		
			340					345					350				
Val	Thr	Gly	Gly	Glu	Glu	Glu	Glu	Glu	Leu	Leu	Gly	Val	Val	His	Val		
		355					360					365					
Ile	Asp	Leu	Leu	Gln	Gln	Gln	Leu	His	Gly	Glu	Pro	Leu	Asn	Leu	Arg		
	370					375					380						
Ala	Leu	Val	Arg	Gln	Pro	Leu	Val	Phe	Pro	Glu	Ala	Leu	Pro	Leu	Leu		
385					390					395					400		
Ser	Ala	Leu	Glu	Gln	Phe	Arg	Asn	Ala	Arg	Thr	His	Phe	Ala	Phe	Val		
				405					410					415			
Val	Asp	Glu	Phe	Gly	Ser	Val	Glu	Gly	Leu	Val	Thr	Leu	Ser	Asp	Val		
			420					425					430				
Met	Glu	Thr	Ile	Ala	Gly	Asn	Leu	Pro	Asn	Glu	Val	Asp	Glu	Ile	Asp		
		435					440					445					
Ala	Arg	His	Asp	Ile	Gln	Lys	Asn	Ala	Asp	Gly	Ser	Trp	Thr	Ala	Asn		
	450					455					460						
Gly	His	Met	Pro	Leu	Glu	Asp	Leu	Val	Gln	Phe	Val	Pro	Leu	Pro	Leu		
465					470					475					480		
Asp	Glu	Lys	Arg	Glu	Tyr	His	Thr	Ile	Ala	Gly	Leu	Leu	Met	Glu	Asn		
			485						490					495			
Leu	Gln	Arg	Ile	Pro	Gln	Pro	Gly	Glu	Glu	Val	Gln	Val	Gly	Asp	Tyr		
			500					505					510				
Met	Leu	Lys	Thr	Leu	Gln	Val	Glu	Ser	His	Arg	Val	Gln	Lys	Val	Gln		
		515					520					525					
Leu	Ile	Pro	Leu	Arg	Gly	Glu	Asp	Glu	Met	Asp	Phe	Glu	Val				
	530					535					540						

<210> 9041

<211> 484

<212> PRT

<213> Enterobacter cloacae

<400> 9041

Thr	Glu	Arg	Ser	Arg	Cys	Ala	Leu	Leu	Ser	Tyr	Ser	Cys	Cys	Arg	Leu		
1				5					10					15			
Ala	Asp	Ile	Ser	Leu	Lys	Ser	Arg	Pro	Phe	Ser	Pro	Ala	Trp	Gly	Phe		
			20					25					30				
Ile	Val	Phe	Ile	Gly	Phe	Asp	Tyr	Gly	Thr	Ala	Asn	Cys	Ser	Val	Ala		
		35					40					45					
Ile	Met	Gln	Asn	Gly	Gln	Pro	Gln	Leu	Leu	Lys	Met	Glu	Asn	Gly	Ser		
	50					55					60						
Thr	Leu	Leu	Pro	Ser	Met	Leu	Cys	Ala	Pro	Thr	Arg	Glu	Ala	Val	Ser		
65					70					75				80			
Glu	Trp	Leu	Phe	Arg	His	His	Gln	Val	Pro	Ala	Thr	Ala	Ala	Glu	Thr		
				85					90					95			
Gln	Ala	Leu	Leu	Arg	Arg	Ala	Val	Ser	Phe	Asn	Arg	Glu	Glu	Asp	Ile		
			100					105					110				
Asp	Val	Thr	Pro	Ser	Ser	Val	Gln	Phe	Gly	Leu	Ser	Ser	Leu	Gly	Gln		
		115					120					125					
Tyr	Ile	Glu	Asp	Pro	Glu	Glu	Val	Tyr	Phe	Val	Lys	Ser	Pro	Lys	Ser		
	130					135					140						
Phe	Leu	Gly	Ala	Ser	Gly	Leu	Lys	Pro	Gln	Gln	Val	Ala	Met	Phe	Glu		
145					150					155					160		
Asp	Leu	Val	Cys	Ala	Met	Met	Leu	His	Ile	Arg	Asn	Gln	Ala	Gln	Ser		
				165					170					175			

Gln Val Pro Asp Ala Ile Thr Gln Ala Val Ile Gly Arg Pro Ile Asn
 180 185 190
 Phe Gln Gly Leu Gly Gly Asp Glu Ala Asn Gln Gln Ala Gln Gly Ile
 195 200 205
 Leu Glu Arg Ala Ala His Arg Thr Gly Phe Arg Asp Val Val Phe Gln
 210 215 220
 Tyr Glu Pro Val Ala Ala Gly Leu Asp Phe Glu Ala Thr Leu Thr Glu
 225 230 235 240
 Glu Gln Arg Val Leu Val Val Asp Ile Gly Gly Gly Thr Thr Asp Cys
 245 250 255
 Ser Leu Leu Leu Met Gly Pro Lys Trp His His Arg Arg Asp Arg Glu
 260 265 270
 Asn Ser Leu Leu Gly His Ser Gly Cys Arg Val Gly Gly Asn Asp Leu
 275 280 285
 Asp Ile Ala Leu Ala Phe Lys Ser Leu Met Pro Leu Leu Gly Met Gly
 290 295 300
 Gly Gln Thr Glu Lys Gly Ile Ala Leu Pro Ile Leu Pro Trp Trp Asn
 305 310 315 320
 Ala Ile Ala Ile Asn Asp Val Pro Ala Gln Ser Asp Phe Tyr Ser Thr
 325 330 335
 Ala Asn Gly Arg Phe Leu Asn Asp Leu Val Arg Asp Ala Gln Asp Ala
 340 345 350
 Glu Lys Val Ala Leu Leu Tyr Lys Val Trp Arg Gln Arg Leu Ser Tyr
 355 360 365
 Arg Val Val Arg Thr Ala Glu Glu Ser Lys Ile Ala Leu Ser Asp Arg
 370 375 380
 Pro Glu His Ala Val Ser Leu Pro Phe Ile Ser Asp Asp Leu Ala Thr
 385 390 395 400
 Ala Ile Thr Gln Glu Gly Leu Glu Met Ala Leu Thr Gln Pro Leu Gln
 405 410 415
 Arg Ile Leu Glu Gln Val Gln Leu Ala Leu Glu Asn Gly Lys Val Lys
 420 425 430
 Pro Asp Val Ile Tyr Leu Thr Gly Gly Ser Ala Arg Ser Pro Leu Ile
 435 440 445
 Lys Lys Ala Leu Ala Glu Gln Leu Pro Gly Ile Pro Ile Ala Gly Gly
 450 455 460
 Asp Asp Phe Gly Ser Val Thr Ala Gly Leu Ala Arg Trp Ala Gln Val
 465 470 475 480
 Val Phe Ser

<210> 9042

<211> 405

<212> PRT

<213> Enterobacter cloacae

<400> 9042

Glu Arg Ile Thr Met Lys Gly Ser Asn Lys Ser Arg Trp Ala Ile Ala
 1 5 10 15
 Ala Gly Leu Ile Val Val Val Leu Ala Ala Ala Trp Tyr Trp His Ser
 20 25 30
 Gln Ser Ala Asn Ser Thr Ala Pro Ala Gly Ala Ser Ser Pro Ser Gln
 35 40 45
 Arg Pro Thr Gly Gly Gly Arg His Gly Met Arg Gly Gly Ala Leu Ala
 50 55 60
 Pro Val Gln Ala Ala Thr Ala Val Asn Lys Ala Val Pro Arg Tyr Leu
 65 70 75 80
 Ser Gly Leu Gly Thr Ile Thr Ala Ala Asn Thr Val Thr Val Arg Ser
 85 90 95
 Arg Val Asp Gly Gln Leu Met Ala Ile His Phe Gln Glu Gly Gln Gln
 100 105 110

Val Lys Ala Gly Asp Leu Leu Ala Glu Ile Asp Pro Ser Gln Phe Lys
 115 120 125
 Val Ala Leu Ala Gln Ala Gln Gly Gln Leu Ala Lys Asp Lys Ala Thr
 130 135 140
 Leu Ala Asn Ala Arg Arg Asp Leu Ala Arg Tyr Gln Gln Leu Val Lys
 145 150 155 160
 Thr Asn Leu Val Ser Arg Gln Glu Leu Asp Thr Gln Gln Ser Leu Val
 165 170 175
 Ser Glu Ser Gln Gly Thr Ile Lys Ala Asp Glu Ala Ala Val Ala Ser
 180 185 190
 Ala Gln Leu Gln Leu Asp Trp Ser Arg Ile Thr Ala Pro Ile Asp Gly
 195 200 205
 Arg Val Gly Leu Lys Gln Val Asp Ile Gly Asn Gln Ile Ser Ser Gly
 210 215 220
 Asp Thr Thr Gly Ile Val Val Ile Thr Gln Thr His Pro Ile Asp Leu
 225 230 235 240
 Val Phe Thr Leu Pro Glu Ser Asp Ile Ala Thr Val Ile Gln Ala Gln
 245 250 255
 Lys Ala Gly Lys Ser Leu Val Val Glu Ala Trp Asp Arg Thr Asn Lys
 260 265 270
 Gln Lys Leu Ser Glu Gly Ser Leu Leu Ser Leu Asp Asn Gln Ile Asp
 275 280 285
 Thr Thr Thr Gly Thr Ile Lys Leu Lys Ala Arg Phe Asn Asn Gln Asp
 290 295 300
 Asp Ala Leu Phe Pro Asn Gln Phe Val Asn Ala Arg Met Leu Val Ala
 305 310 315 320
 Thr Glu Glu Asn Ala Val Val Ile Pro Thr Ala Ala Leu Gln Met Gly
 325 330 335
 Ser Glu Gly Asn Phe Val Trp Val Leu Asn Ser Glu Asn Lys Val Ser
 340 345 350
 Lys His Leu Val Lys Thr Gly Ile Gln Asp Ser Gln Thr Val Val Ile
 355 360 365
 Ser Ala Gly Leu Ser Ala Gly Asp Arg Val Val Thr Asp Gly Ile Asp
 370 375 380
 Arg Leu Thr Glu Gly Ala Gln Val Glu Val Val Glu Ala Gln Asn Thr
 385 390 395 400
 Gly Ala Lys Ala
 405

<210> 9043

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 9043

His Tyr Ser Arg Val Thr Ser Gly Thr Gly Phe Ile Glu Gly Ser Met
 1 5 10 15
 Thr Glu Leu Pro Ile Asp Asp Asn Thr Pro Arg Ile Leu Ile Val Glu
 20 25 30
 Asp Glu Pro Lys Leu Gly Gln Leu Leu Ile Asp Tyr Leu Arg Ala Ala
 35 40 45
 Ser Tyr Ala Pro Thr Leu Ile Ser His Gly Asp Gln Val Leu Pro Tyr
 50 55 60
 Val Arg Gln Thr Pro Pro Asp Leu Ile Leu Leu Asp Leu Met Leu Pro
 65 70 75 80
 Gly Thr Asp Gly Leu Thr Leu Cys Arg Glu Ile Arg Arg Phe Ser Asp
 85 90 95
 Val Pro Ile Val Met Val Thr Ala Lys Ile Glu Glu Ile Asp Arg Leu
 100 105 110
 Leu Gly Leu Glu Ile Gly Ala Asp Asp Tyr Ile Cys Lys Pro Tyr Ser
 115 120 125

```

Pro Arg Glu Val Val Ala Arg Val Lys Thr Ile Leu Arg Arg Cys Lys
    130          135          140
Pro Gln Arg Glu Leu Gln Val Leu Asp Ala Gln Ser Pro Leu Ile Val
145          150          155          160
Asp Glu Ser Arg Phe Gln Ala Ser Trp Arg Ser Lys Leu Leu Asp Leu
    165          170          175
Thr Pro Ala Glu Phe Arg Leu Leu Lys Thr Leu Ser His Glu Pro Gly
    180          185          190
Lys Val Phe Ser Arg Glu Gln Leu Leu Asn His Leu Tyr Asp Asp Tyr
    195          200          205
Arg Val Val Thr Asp Arg Thr Ile Asp Ser His Ile Lys Asn Leu Arg
    210          215          220
Arg Lys Leu Glu Ala Leu Asp Ala Asp Gln Ser Phe Ile Arg Ala Val
225          230          235          240
Tyr Gly Val Gly Tyr Arg Trp Glu Ala Asp Ala Cys Arg Ile Ala
    245          250          255

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<210> 9044

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 9044

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Leu Lys Lys Gly Ala Thr Arg Met Ala Thr Tyr Pro Asp Ser Leu Leu
1      5      10
Ile Leu Asn Gly Lys Ser Ala Gly Asn Asp Leu Leu Arg Gln Ala Ile
    20      25      30
Thr Glu Leu Arg Glu Asp Gly Ala Arg Ile His Val Arg Val Thr Phe
    35      40      45
Glu Lys Gly Asp Ala Ala Arg Tyr Ile Asp Glu Gly Ile Arg Leu Gly
    50      55      60
Ala Glu Thr Ile Ile Ser Gly Gly Gly Asp Gly Thr Ile Asn Glu Ile
65      70      75      80
Ala Gly Ala Leu Ile Asp Leu Asn Ala Ala Ala Arg Pro Ala Met Gly
    85      90      95
Ile Leu Pro Leu Gly Thr Ala Asn Asp Phe Ala Thr Ser Ala Gly Ile
    100     105     110
Pro Glu Asp Leu Gly Lys Ala Leu Gln Leu Ala Ile Leu Gly Lys Ala
    115     120     125
Thr Ala Val Asp Ile Ala Gln Val Asn Glu Arg Thr Cys Phe Ile Asn
    130     135     140
Met Ala Thr Gly Gly Phe Gly Thr Arg Ile Thr Ser Glu Thr Pro Glu
145     150     155     160
Lys Leu Lys Ala Ala Leu Gly Gly Val Ser Tyr Leu Ile His Gly Leu
    165     170     175
Met Arg Met Asp Thr Leu Lys Pro Asp Ser Cys Glu Ile His Gly Glu
    180     185     190
Asn Phe His Trp Gln Gly Asp Ala Leu Val Ile Gly Ile Gly Asn Gly
    195     200     205
Arg Gln Ala Gly Gly Gly Gln Gln Leu Cys Pro Glu Ala Leu Ile Asn
    210     215     220
Asp Gly Gln Leu Gln Leu Arg Ile Phe Thr Gly Asp Gly Leu Leu Pro
225     230     235     240
Ala Leu Phe Thr Thr Leu Thr Gln Pro Glu Glu Ser Pro Asn Ile Ile
    245     250     255
Asp Gly Lys Ser Ala Trp Phe Glu Val Ile Ala Pro His Gly Met Thr
    260     265     270
Phe Asn Leu Asp Gly Glu Pro Leu Ser Gly Glu Arg Phe Arg Ile Glu
    275     280     285
Val Leu Pro Gly Ala Leu Gln Cys Arg Leu Pro Pro Asp Cys Val Leu
    290     295     300

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Leu Arg
305

<210> 9045

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 9045

Gln	Leu	Asn	Arg	Ile	Lys	Lys	Gly	Gln	Lys	Thr	Val	Val	Thr	Leu	Leu
1				5					10					15	
Asn	Asp	Lys	Ile	Arg	Phe	Asn	Gly	Ser	Val	Glu	Ser	Ile	Ser	Lys	Gly
		20						25					30		
Ile	Leu	Asp	Tyr	Ser	Asn	Lys	Gly	Ser	Gln	Gly	Glu	Leu	His	Glu	Val
		35					40					45			
Asn	Pro	Thr	Phe	Glu	Trp	Val	Arg	Leu	Pro	Met	Arg	Ile	Pro	Val	Arg
	50					55				60					
Ile	Ala	Ile	Pro	Ser	Asn	Gln	Asp	Asn	Tyr	Asp	Leu	Leu	Val	Ser	Gly
65					70				75						80
Met	Thr	Cys	Thr	Val	Thr	Ile	Ser	Glu	Asn	His	Glu	Lys	Leu		
				85					90					95	

<210> 9046

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 9046

Ala	Arg	Met	Arg	His	Ser	Arg	Gly	Glu	Glu	Arg	Arg	Ser	Ala	Ala	Asp
1				5					10					15	
Arg	Asp	Ala	Ala	Phe	Glu	Lys	Ile	Asn	Glu	Ala	Arg	Ser	Pro	Leu	Leu
		20						25					30		
Pro	Gln	Leu	Gly	Leu	Gly	Ala	Asp	Tyr	Thr	Tyr	Thr	Asn	Gly	Phe	Arg
		35					40					45			
Asp	Asn	Asn	Gly	Ile	Asn	Ser	Asn	Ala	Thr	Ser	Ala	Ser	Leu	Gln	Leu
	50					55				60					
Thr	Gln	Thr	Leu	Phe	Asp	Met	Ser	Lys	Trp	Arg	Glu	Leu	Ser	Leu	Gln
65				70					75						80
Glu	Lys	Ser	Ala	Gly	Ile	Gln	Asp	Val	Thr	Tyr	Gln	Thr	Asp	Gln	Gln
				85				90						95	
Thr	Leu	Ile	Leu	Asn	Thr	Ala	Thr	Ala	Tyr	Phe	Asn	Val	Leu	Ser	Ala
			100					105					110		
Ile	Asp	Ala	Leu	Ser	Tyr	Thr	Glu	Ala	Gln	Lys	Gln	Ala	Ile	Tyr	Arg
		115					120					125			
Gln	Leu	Asp	Gln	Thr	Thr	Gln	Arg	Phe	Asn	Val	Gly	Leu	Val	Ala	Ile
	130					135					140				
Thr	Asp	Val	Gln	Asn	Ala	Arg	Ser	Gln	Tyr	Asp	Thr	Val	Leu	Ala	Asn
145				150					155						160
Glu	Val	Thr	Ala	Arg	Asn	Asn	Leu	Asp	Asn	Ala	Leu	Glu	Ser	Leu	Arg
				165				170						175	
Gln	Val	Thr	Gly	Asn	Tyr	Tyr	Pro	Glu	Leu	Ala	Ser	Leu	Asn	Val	Asp
			180					185					190		
Ser	Phe	Lys	Thr	Asp	Lys	Pro	Gln	Ala	Val	Asn	Ala	Leu	Leu	Lys	Glu
		195					200					205			
Ala	Glu	Asn	Arg	Asn	Leu	Thr	Leu	Leu	Gln	Ala	Arg	Leu	Ser	Gln	Asp
	210					215					220				
Leu	Ala	Arg	Glu	Gln	Ile	Arg	Leu	Ala	Gln	Asp	Gly	His	Leu	Pro	Thr
225				230					235						240
Leu	Ser	Leu	Ser	Ala	Ser	Thr	Gly	Val	Ser	Asp	Thr	Ser	Tyr	Ser	Gly
				245					250					255	
Ser	Lys	Thr	Asn	Thr	Ala	Gln	Tyr	Asp	Asp	Asn	Asn	Met	Gly	Gln	Asn

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<210> 9047
<211> 68
<212> PRT
<213> Enterobacter cloacae
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<210> 9048
<211> 400
<212> PRT
<213> Enterobacter cloacae
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<400> 9048															
Cys	Asp	Arg	Leu	Leu	Asn	Ser	Leu	Asn	Gly	Arg	Leu	Ile	Met	Glu	Arg
1				5					10					15	
Val	Ser	Ile	Ala	Glu	Arg	Pro	Asp	Trp	Arg	Glu	Lys	Ala	Thr	Glu	Tyr
			20					25					30		
Gly	Phe	Asn	Phe	His	Thr	Met	Tyr	Gly	Glu	Pro	Tyr	Trp	Cys	Glu	Asp
		35				40						45			
Ala	Tyr	Tyr	Lys	Leu	Thr	Leu	Ala	Gln	Val	Lys	Lys	Leu	Glu	Glu	Val
	50					55					60				
Thr	Ala	Glu	Leu	His	Gln	Met	Cys	Leu	Lys	Val	Val	Glu	Lys	Val	Ile
65				70						75				80	
Asp	Ser	Asp	Glu	Leu	Met	Thr	Lys	Phe	Arg	Ile	Pro	Lys	His	Thr	Trp
				85					90					95	

Ser	Phe	Val	Arg	Gln	Ser	Trp	Lys	Thr	Asn	Gln	Pro	Ser	Leu	Tyr	Ser
			100					105					110		
Arg	Leu	Asp	Leu	Ala	Trp	Asp	Gly	Val	Gly	Glu	Pro	Lys	Leu	Leu	Glu
		115					120					125			
Asn	Asn	Ala	Asp	Thr	Pro	Thr	Ser	Leu	Tyr	Glu	Ala	Ala	Phe	Phe	Gln
		130				135					140				
Trp	Ile	Trp	Leu	Glu	Asp	Gln	Ala	Asn	Ala	Gly	Asn	Leu	Pro	Glu	Gly
145					150					155					160
Ser	Asp	Gln	Phe	Asn	Ser	Leu	Gln	Glu	Lys	Leu	Ile	Glu	Arg	Phe	Val
			165						170					175	
Glu	Leu	Arg	Glu	Gln	His	Gly	Phe	Asn	Leu	Leu	His	Leu	Ala	Cys	Cys
			180					185					190		
Arg	Asp	Thr	Glu	Glu	Asp	Arg	Gly	Thr	Val	Gln	Tyr	Leu	Gln	Asp	Cys
		195					200					205			
Ala	Ala	Glu	Ala	Glu	Val	Ala	Thr	Glu	Phe	Leu	Tyr	Ile	Glu	Asp	Ile
		210				215						220			
Gly	Leu	Gly	Glu	Lys	Gly	Gln	Phe	Thr	Asp	Met	Gln	Asp	Gln	Val	Ile
225					230					235					240
Ser	Asn	Leu	Phe	Lys	Leu	Tyr	Pro	Trp	Glu	Tyr	Met	Leu	Arg	Glu	Met
			245						250					255	
Phe	Ser	Thr	Lys	Leu	Glu	Asp	Ala	Gly	Val	Arg	Trp	Leu	Glu	Pro	Ala
			260					265					270		
Trp	Lys	Ser	Ile	Ile	Ser	Asn	Lys	Ala	Leu	Leu	Pro	Met	Leu	Trp	Glu
		275					280					285			
Met	Phe	Pro	Asn	His	Pro	Asn	Leu	Leu	Pro	Ala	Tyr	Phe	Ala	Glu	Asp
		290				295					300				
Asp	Phe	Pro	Pro	Met	Glu	Lys	Tyr	Val	Val	Lys	Pro	Ile	Phe	Ser	Arg
305					310					315					320
Glu	Gly	Ala	Asn	Val	Ser	Ile	Ile	Glu	Asn	Gly	Lys	Thr	Leu	Glu	Ala
			325						330					335	
Val	Glu	Gly	Pro	Tyr	Gly	Glu	Glu	Gly	Met	Ile	Val	Gln	Ala	Phe	Tyr
			340					345					350		
Gln	Leu	Pro	Lys	Phe	Gly	Asp	Ser	Tyr	Thr	Leu	Ile	Gly	Ser	Trp	Leu
		355					360					365			
Ile	Asn	Asp	Gln	Pro	Ala	Gly	Ile	Gly	Ile	Arg	Glu	Asp	Arg	Ala	Leu
		370				375					380				
Ile	Thr	Gln	Asp	Leu	Ser	Arg	Phe	Tyr	Pro	His	Ile	Phe	Val	Glu	
385					390					395					400

<210> 9049

<211> 844

<212> PRT

<213> Enterobacter cloacae

<400> 9049

Cys	Thr	Asn	Asn	Ser	Val	Thr	Ser	Arg	Tyr	Gln	Pro	Thr	Gly	Asn	Pro
1			5						10					15	
Cys	Arg	Ser	Ala	Leu	Phe	Ile	Tyr	Ser	Ser	Asn	Arg	Met	Met	Thr	Tyr
			20					25					30		
Lys	Val	Gln	Trp	Ile	Ile	Ile	Ile	Ala	Ser	Leu	Leu	Met	Thr	Ile	Val
		35					40					45			
Ala	Ser	Ala	Thr	Glu	Phe	Asn	Ile	Asn	Ala	Ile	Asp	Lys	Asp	Gln	Arg
		50				55					60				
Gly	Ser	Val	Asp	Leu	Ser	Arg	Phe	Lys	Asp	Gln	Ile	Ser	Val	Thr	Pro
65					70					75					80
Gly	Ser	Tyr	Phe	Val	Thr	Val	Ser	Val	Asn	Asp	Ile	Pro	Leu	Ala	Asn
			85						90					95	
Gly	Trp	Gln	Leu	Arg	Trp	Arg	Asp	Ile	Asn	Asn	Ala	Val	Gln	Val	Cys
			100					105					110		
Ile	Pro	Pro	Glu	Leu	Ala	Asp	Thr	Phe	Ala	Phe	Gln	Asp	Asp	Val	Arg
		115					120					125			

His	Ala	Leu	Pro	Glu	Lys	Glu	Gly	Cys	Val	Asp	Phe	Ala	Ala	Arg	Pro
130						135					140				
Asp	Ile	Lys	Phe	Thr	Phe	Glu	Gln	Gly	Ser	Gln	Thr	Leu	Lys	Val	Thr
145					150					155					160
Ile	Pro	Gln	Ala	Trp	Leu	Gln	Tyr	Arg	Ala	Val	Asp	Trp	Met	Pro	Pro
				165					170					175	
Ser	Thr	Trp	Asp	Asn	Gly	Val	Pro	Gly	Val	Leu	Leu	Asp	Tyr	Asn	Leu
			180					185					190		
Phe	Ala	Ser	His	Tyr	Gln	Pro	Asn	Ser	Ser	Gly	Ser	Asn	Asp	Asn	Ala
		195					200					205			
Asn	Thr	Tyr	Gly	Thr	Ala	Gly	Ala	Asn	Met	Gly	Ala	Trp	Arg	Leu	Arg
210						215					220				
Ser	Asp	Tyr	Gln	Tyr	Thr	Arg	Ser	Asp	Thr	Glu	Ala	Gly	Ser	Glu	Gln
225					230					235					240
Asn	Gly	Arg	Phe	Ser	Arg	Val	Tyr	Met	Phe	Arg	Pro	Leu	Pro	Ser	Ile
				245					250					255	
Gly	Ala	Lys	Leu	Thr	Leu	Gly	Glu	Thr	Asp	Phe	Gln	Ser	Ser	Ile	Phe
			260					265						270	
Asp	Ala	Phe	Thr	Tyr	Thr	Gly	Ala	Ser	Leu	Ile	Ser	Asp	Glu	Arg	Met
		275					280					285			
Leu	Pro	Trp	Ser	Leu	Arg	Gly	Tyr	Ala	Pro	Gln	Ile	Thr	Gly	Ile	Ala
						295				300					
Gln	Thr	Asn	Ala	Thr	Val	Ala	Val	Ser	Leu	Ala	Asp	Arg	Val	Ile	Tyr
305					310					315					320
Gln	Ser	Lys	Val	Pro	Pro	Gly	Pro	Phe	Val	Ile	Gln	Asp	Leu	Asn	Gln
				325					330					335	
Ser	Val	Gln	Gly	Thr	Leu	Asp	Val	Lys	Val	Thr	Glu	Glu	Asp	Gly	Arg
			340					345					350		
Val	Asn	Thr	Phe	Gln	Val	Ser	Ala	Glu	Ser	Val	Pro	Phe	Leu	Thr	Arg
		355					360					365			
Lys	Gly	Gln	Val	Arg	Tyr	Lys	Leu	Ala	Ala	Gly	Lys	Ala	Arg	Gln	Gly
		370				375					380				
Ala	Ser	His	Asp	Val	Glu	Asp	Asn	Ala	Phe	Met	Ser	Gly	Glu	Phe	Ser
385					390					395					400
Trp	Gly	Met	Leu	Ser	His	Thr	Ser	Leu	Tyr	Gly	Gly	Thr	Leu	Ala	Asp
				405					410					415	
Gly	Asp	Arg	Tyr	Arg	Ser	Val	Ala	Ala	Gly	Ile	Gly	Gln	Asn	Met	Ala
			420					425					430		
Trp	Leu	Gly	Ala	Leu	Ser	Phe	Asp	Val	Thr	Gln	Ala	Thr	Ser	Gln	Leu
		435					440					445			
Pro	His	Gln	Arg	Ser	Gln	Thr	Gly	Tyr	Ser	Tyr	Arg	Ile	Asn	Tyr	Ser
		450				455					460				
Lys	Arg	Phe	Asp	Thr	Thr	Gly	Ser	Gln	Leu	Thr	Leu	Ala	Ser	Tyr	Arg
465					470					475					480
Tyr	Ser	Asp	Pro	Gln	Phe	Leu	Ser	Tyr	Ala	Arg	Tyr	Leu	Asp	Tyr	Asp
				485					490					495	
Asn	Gly	Asp	Arg	Gln	Ser	Glu	Lys	Gln	Thr	Leu	Ser	Val	Thr	Ala	Ser
			500					505					510		
Gln	Tyr	Ile	Ser	Ala	Leu	Ser	Leu	Asn	Leu	Tyr	Val	Asn	Met	Leu	Arg
		515					520					525			
Gln	Thr	Trp	Trp	Asn	Asp	Ser	Pro	Ser	Thr	Thr	Gly	Ser	Ile	Thr	Ala
		530				535					540				
Gly	Tyr	Asn	Phe	Asp	Ile	Gly	Arg	Trp	Lys	Asn	Leu	Gly	Val	Thr	Leu
545					550					555					560
Ser	Trp	Ser	Lys	Thr	His	Tyr	Glu	Glu	Glu	Asp	Glu	Asn	Asp	Asp	Thr
				565					570					575	
Gln	Phe	Tyr	Leu	Ser	Leu	Ser	Val	Pro	Leu	Asp	Pro	Asp	His	Arg	Leu
			580					585					590		
Asn	Tyr	Asp	Leu	Arg	Asn	Ser	Asp	Thr	Leu	Ser	His	Asn	Val	Ser	Trp
		595					600					605			
Tyr	Asp	Thr	Ser	Asp	Arg	Asn	Asn	Thr	Trp	Gly	Val	Ser	Ala	Gly	Thr

610		615		620
Glu Ser Gly Lys Pro Asp Ser Gly Ala Gln Val Ser Gly Asn Tyr Gln				
625		630		635
His Tyr Ser Ala Tyr Gly Asp Leu Asn Leu Ser Gly Ser Tyr Lys Ala				
		645		650
Asn Glu Tyr Asn Ser Leu Ser Ala Ser Trp Ser Gly Ser Phe Thr Ser				
		660		665
Thr Ala Lys Gly Ala Ala Leu His Arg Arg Ser Tyr Gly Asn Glu Pro				
		675		680
Arg Val Met Val Ser Thr Asp Gly Val Gly His Ile Pro Leu Asn Met				
		690		695
Ser Arg Asp Glu Thr Asn Arg Phe Gly Ile Gly Val Leu Pro Ser Phe				
705		710		715
Ser Ser Tyr Ser Pro Ser Ser Val Gln Val Asn Met Asn Asn Leu Pro				
		725		730
Asp Gly Val Asp Val Asp Asn Arg Val Val Thr Ser Thr Trp Thr Glu				
		740		745
Gly Ala Ile Gly Tyr Arg Gln Ile Ala Thr Arg Ala Gly Gln Asp Val				
		755		760
Thr Gly Val Leu Arg Met Ser Ser Gly Thr Pro Pro Leu Gly Ala Ile				
		770		775
Val Arg Leu Asp Glu Ser Asn Leu Gln Val Gly Met Val Ala Asp Glu				
785		790		795
Gly Arg Val Trp Leu Gly Ala Val Glu Pro Glu Gln Gln Phe Arg Val				
		805		810
Thr Trp Gly Asp Asn Gln Gln Cys Arg Phe Ser Leu Pro Ser His Leu				
		820		825
Glu Asn Ser Met Gln Leu Ile Leu Pro Cys Gln				
		835		840

<210> 9050

<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 9050

Glu Ile Ile Met Lys Leu Thr Pro Ile Lys Ser Leu Cys Leu Met Leu	
1	5
Ile Ser Thr Thr Phe Thr Ala His Ala Ile Asn Leu Asp Arg Thr	
	20
Arg Ile Val Phe Pro Glu Ser Asp Lys Ala Ser Ser Leu Lys Val Asp	
	35
Asn Gln Ser Lys Ala Leu Pro Tyr Leu Ala Leu Ser Trp Ile Glu Asp	
	50
Glu Lys Gly Gln Lys Glu Asp Val His Phe Met Ala Leu Pro Pro Ile	
65	70
Gln Arg Ile Glu Ala Gly Ala Ser Ser Gln Val Arg Ile Val Lys Gln	
	85
Ala Ala Thr Arg Gln Leu Pro Lys Asp Arg Glu Ser Leu Phe Tyr Phe	
	100
Asn Leu Arg Glu Val Pro Pro Lys Ser Thr Ser Ala Ser Glu Glu Arg	
	115
Ser Val Met Gln Val Ala Met Gln Ser Arg Ile Lys Leu Phe Trp Arg	
	130
Pro Glu Ala Ile Arg Lys Lys Ser Gly Glu Leu Thr Glu Met Arg Met	
145	150
Glu Ile Thr Ala Asn Ala Lys Gly Leu Thr Val His Asn Pro Thr Pro	
	165
Tyr Tyr Ile Thr Leu Ala Trp Leu Ser Lys Asn Ala Lys Thr Met Leu	
	180
Pro Gly Phe Asp Ser Leu Met Ile Ala Pro Phe Ala Thr Ala Thr Ala	
	185
	190

	195					200				205					
Ser	Thr	Gly	Asp	Tyr	His	Gly	Ser	Tyr	Tyr	Ser	Ile	Gly	Tyr	Ile	Asp
210						215					220				
Asp	Tyr	Gly	Ala	Leu	Lys	Lys	Val	Asp	Val	Gln	Cys	Thr	Gly	Thr	Val
225					230					235					240
Leu	Cys	Lys	Leu	Asn	Glu	Arg	Lys	Ile	Asp	Lys	Asp	Ala	Lys	Ala	His
				245					250						255

<210> 9051
 <211> 200
 <212> PRT
 <213> Enterobacter cloacae

<400> 9051

Ala	Thr	Ala	Ser	Gln	Arg	Trp	Arg	Ser	Asp	Ala	Arg	Arg	Gly	Pro	Ser
1				5					10					15	
Val	Gly	Arg	His	Ala	Ala	Val	Leu	Ser	Gly	Pro	Gly	Ser	Thr	Ser	Arg
			20					25					30		
His	Gly	Ala	Arg	Ala	Ala	Arg	Pro	Ala	Gly	Lys	Leu	Trp	Arg	Gly	Asp
		35					40					45			
Ala	His	Arg	Arg	Ser	Ala	Val	Gly	Ala	Phe	Ser	Leu	Ala	Arg	Gln	Pro
		50				55					60				
Asp	Leu	Ser	Ala	Gly	Asp	Ala	Arg	Tyr	Leu	Ala	Val	Ala	Ser	Pro	Ala
65				70					75					80	
Phe	Asn	Pro	Gln	Asn	Arg	Leu	Phe	Ala	Ala	His	Leu	Ala	Asp	Ile	Lys
			85					90						95	
Arg	Asn	Ala	Met	Glu	Leu	Thr	Pro	Arg	Glu	Lys	Asp	Lys	Leu	Leu	Leu
			100					105					110		
Phe	Thr	Ala	Ala	Leu	Val	Ala	Glu	Arg	Arg	Leu	Ala	Arg	Gly	Val	Lys
		115					120					125			
Leu	Asn	Tyr	Pro	Glu	Ser	Val	Ala	Leu	Ile	Ser	Ala	Phe	Ile	Met	Glu
		130				135					140				
Gly	Ala	Arg	Asp	Gly	Glu	Thr	Val	Ala	Ser	Leu	Met	Glu	Ala	Gly	Arg
145				150					155					160	
His	Val	Leu	Thr	Arg	Asp	Gln	Val	Met	Glu	Gly	Val	Pro	Glu	Met	Ile
			165						170					175	
Pro	Asp	Ile	Gln	Val	Glu	Ala	Thr	Phe	Pro	Asp	Gly	Ser	Lys	Leu	Val
			180					185					190		
Thr	Val	His	Asn	Pro	Ile	Val									
		195					200								

<210> 9052
 <211> 85
 <212> PRT
 <213> Enterobacter cloacae

<400> 9052

Cys	Gln	Arg	Gln	Thr	Glu	Phe	Ile	Lys	Gly	Glu	Ser	Tyr	Met	Pro	Val
1				5					10					15	
Ile	Lys	Val	Arg	Glu	Asn	Glu	Pro	Phe	Asp	Val	Ala	Leu	Arg	Arg	Phe
			20					25					30		
Lys	Arg	Ser	Cys	Glu	Lys	Ala	Gly	Val	Leu	Ala	Glu	Val	Arg	Arg	Arg
		35					40					45			
Glu	Phe	Tyr	Glu	Lys	Pro	Thr	Glu	Arg	Lys	Arg	Ala	Lys	Ala	Ser	
		50				55				60					
Ala	Val	Lys	Arg	His	Ala	Lys	Lys	Leu	Ala	Arg	Glu	Asn	Ala	Arg	Arg
65				70					75					80	
Thr	Arg	Leu	Tyr												

<210> 9053
 <211> 660
 <212> PRT
 <213> Enterobacter cloacae

<400> 9053

Val	Pro	Asn	Ile	Asp	Arg	Glu	Ala	Pro	Gly	Ser	Arg	Thr	Glu	Arg	Gln
1			5						10					15	
Arg	Gln	Lys	Tyr	Lys	Tyr	Ala	Leu	Ala	Leu	Lys	Val	Gly	Ser	Pro	Ser
		20						25					30		
Pro	Thr	Pro	Ile	Lys	Arg	Ile	Lys	Cys	Gly	Tyr	Arg	Leu	Met	Glu	Gln
		35					40					45			
Asn	Pro	Gln	Ser	Gln	Leu	Lys	Leu	Leu	Val	Gln	Arg	Gly	Lys	Glu	Gln
	50					55					60				
Gly	Tyr	Leu	Thr	Tyr	Ala	Glu	Val	Asn	Asp	His	Leu	Pro	Glu	Asp	Ile
65				70					75						80
Val	Asp	Ser	Asp	Gln	Ile	Glu	Asp	Ile	Ile	Gln	Met	Ile	Asn	Asp	Met
				85					90					95	
Gly	Ile	Gln	Val	Met	Glu	Glu	Ala	Pro	Asp	Ala	Asp	Asp	Leu	Leu	Leu
			100					105					110		
Ala	Glu	Thr	Ser	Asn	Asn	Thr	Asp	Glu	Asp	Ala	Glu	Glu	Ala	Ala	Ala
		115					120					125			
Gln	Val	Leu	Ser	Ser	Val	Glu	Ser	Glu	Ile	Gly	Arg	Thr	Thr	Asp	Pro
	130					135					140				
Val	Arg	Met	Tyr	Met	Arg	Glu	Met	Gly	Thr	Val	Glu	Leu	Leu	Thr	Arg
145				150					155						160
Glu	Gly	Glu	Ile	Asp	Ile	Ala	Lys	Arg	Ile	Glu	Asp	Gly	Ile	Asn	Gln
				165					170					175	
Val	Gln	Cys	Ser	Val	Ala	Glu	Tyr	Pro	Glu	Ala	Ile	Thr	Tyr	Leu	Leu
		180					185						190		
Glu	Gln	Tyr	Asp	Arg	Val	Glu	Ala	Glu	Glu	Ala	Arg	Leu	Ser	Asp	Leu
		195				200						205			
Ile	Thr	Gly	Phe	Val	Asp	Pro	Asn	Ala	Glu	Glu	Asp	Met	Ala	Pro	Thr
	210				215						220				
Ala	Thr	His	Val	Gly	Ser	Glu	Leu	Ser	Gln	Glu	Glu	Met	Asp	Asp	Asp
225					230				235						240
Glu	Asp	Glu	Asp	Glu	Glu	Glu	Asp	Asp	Asp	Ser	Ser	Asp	Asp	Asp	Asn
				245					250					255	
Ser	Ile	Asp	Pro	Glu	Leu	Ala	Arg	Glu	Lys	Phe	Ala	Glu	Leu	Arg	Thr
		260					265						270		
Gln	Tyr	Glu	Val	Thr	Arg	Asp	Thr	Ile	Lys	Ala	Lys	Gly	Arg	Ser	His
		275					280					285			
Ala	Ala	Ala	Gln	Glu	Glu	Ile	Leu	Lys	Leu	Ser	Glu	Val	Phe	Lys	Gln
	290					295					300				
Phe	Arg	Leu	Val	Pro	Lys	Gln	Phe	Asp	Tyr	Leu	Val	Asn	Ser	Met	Arg
305					310					315					320
Val	Met	Met	Asp	Arg	Val	Arg	Thr	Gln	Glu	Arg	Ile	Ile	Met	Lys	Leu
				325					330					335	
Cys	Val	Glu	Gln	Cys	Lys	Met	Pro	Lys	Lys	Asn	Phe	Ile	Thr	Leu	Phe
		340					345						350		
Thr	Gly	Asn	Glu	Thr	Ser	Glu	Thr	Trp	Phe	Asn	Ala	Ala	Ile	Ala	Met
		355					360					365			
Asn	Lys	Pro	Trp	Ser	Glu	Lys	Leu	His	Asp	Val	Lys	Glu	Asp	Val	Gln
	370					375					380				
Arg	Gly	Leu	Gln	Lys	Leu	His	Gln	Ile	Glu	Glu	Glu	Thr	Gly	Leu	Thr
385					390					395					400
Ile	Glu	Gln	Val	Lys	Asp	Ile	Asn	Arg	Arg	Met	Ser	Ile	Gly	Glu	Ala
				405					410					415	
Lys	Ala	Arg	Arg	Ala	Lys	Lys	Glu	Met	Val	Glu	Ala	Asn	Leu	Arg	Leu
			420					425					430		

Val Ile Ser Ile Ala Lys Lys Tyr Thr Asn Arg Gly Leu Gln Phe Leu
 435 440 445
 Asp Leu Ile Gln Glu Gly Asn Ile Gly Leu Met Lys Ala Val Asp Lys
 450 455 460
 Phe Glu Tyr Arg Arg Gly Tyr Lys Phe Ser Thr Tyr Ala Thr Trp Trp
 465 470 475 480
 Ile Arg Gln Ala Ile Thr Arg Ser Ile Ala Asp Gln Ala Arg Thr Ile
 485 490 495
 Arg Ile Pro Val His Met Ile Glu Thr Ile Asn Lys Leu Asn Arg Ile
 500 505 510
 Ser Arg Gln Met Leu Gln Glu Met Gly Arg Glu Pro Thr Pro Glu Glu
 515 520 525
 Leu Ala Glu Arg Met Leu Met Pro Glu Asp Lys Ile Arg Lys Val Leu
 530 535 540
 Lys Ile Ala Lys Glu Pro Ile Ser Met Glu Thr Pro Ile Gly Asp Asp
 545 550 555 560
 Glu Asp Ser His Leu Gly Asp Phe Ile Glu Asp Thr Thr Leu Glu Leu
 565 570 575
 Pro Leu Asp Ser Ala Thr Thr Glu Ser Leu Arg Ala Ala Thr His Asp
 580 585 590
 Val Leu Ala Gly Leu Thr Ala Arg Glu Ala Lys Val Leu Arg Met Arg
 595 600 605
 Phe Gly Ile Asp Met Asn Thr Asp His Thr Leu Glu Glu Val Gly Lys
 610 615 620
 Gln Phe Asp Val Thr Arg Glu Arg Ile Arg Gln Ile Glu Ala Lys Ala
 625 630 635 640
 Leu Arg Lys Leu Arg His Pro Ser Arg Ser Glu Val Leu Arg Ser Phe
 645 650 655
 Leu Asp Asp
 660

<210> 9054

<211> 401

<212> PRT

<213> Enterobacter cloacae

<400> 9054

Leu Lys Tyr Leu Ser Ala Arg Ala Lys Gly Ile Met Ser Thr Pro Ile
 1 5 10 15
 Lys Arg Leu Glu Ile Ile Lys Asn Ala Ile Glu Leu Glu Asp Asp Asp
 20 25 30
 Ile Ile Arg Ser Gln Leu Lys Arg Leu Lys Glu Glu Ala Phe Asp Asp
 35 40 45
 Glu Leu Leu Ser Ile Val Ala Ala Leu Glu Gln Lys Asn Tyr Thr Ala
 50 55 60
 Ala Leu Arg Ala Ile Thr Thr Trp Leu Gln Ser Gln Arg Ala Val Thr
 65 70 75 80
 Pro Trp Arg Asp Pro Gln Leu Ala Ala Ser Lys Leu Glu Leu Lys Ala
 85 90 95
 Leu Glu Glu Arg Leu Arg Asp Leu Ile Asp Arg Arg Asn Ala Arg Val
 100 105 110
 Gln Gln Leu Asp Glu Phe Asn Asp Leu Tyr Phe Ser Arg Leu Gly Pro
 115 120 125
 Leu Met Gln Gln Ile Leu Ala Leu Arg Lys Thr Leu Ala Glu Leu Asn
 130 135 140
 Leu Arg Arg Gln Gln Ala Glu Thr Arg Arg Arg Glu Glu Asp Tyr Arg
 145 150 155 160
 Arg Cys Gln Ser Tyr Met Ala Gln Ala Val Glu Val Leu Thr Thr Leu
 165 170 175
 Thr Arg Arg Trp Arg Asp Leu Pro Ala Asp Ser Val Gln Ala Ala Glu
 180 185 190

Ala	Arg	Lys	His	Leu	Gln	Gln	Gln	Ser	Asn	Leu	Ile	Ala	Asn	Leu	Leu
		195					200					205			
Ala	Glu	Ala	Met	Glu	Leu	Glu	Thr	Gly	Leu	Thr	Arg	Glu	Glu	Glu	Pro
	210					215					220				
Ala	Arg	Gln	Ala	Arg	Asp	Glu	Ala	Asn	Glu	Glu	Tyr	Lys	Lys	Tyr	Arg
225					230					235					240
Glu	Gln	His	His	Asp	Ala	Glu	Val	Arg	Leu	Arg	Lys	Gly	Lys	Asp	Leu
				245					250					255	
Ser	Glu	Glu	Asp	Arg	Asn	Glu	Leu	Lys	Arg	Leu	Trp	Arg	Gln	Ala	Ser
			260					265					270		
Lys	Leu	Cys	His	Pro	Asp	Leu	Val	Ala	Asp	Asp	Leu	Lys	Glu	Glu	Ala
		275					280					285			
Asn	Arg	Met	Met	Val	Gln	Leu	Asn	Gln	Ala	Lys	Gln	Arg	Gly	Asp	Val
	290					295					300				
Lys	Ala	Ile	Arg	Leu	Leu	Val	Ala	Arg	Leu	Gln	Gln	Gly	Phe	Glu	Pro
305					310					315					320
Met	Met	Ala	Ser	Asp	Arg	Leu	Asn	Asp	Leu	Glu	Arg	Ile	Arg	Lys	Lys
				325					330					335	
Met	Ala	Gln	Val	Arg	Glu	Gln	Ile	Asp	Thr	Leu	Val	Asn	Glu	Leu	Ala
			340					345					350		
Glu	Leu	Glu	Lys	Glu	Glu	Ser	Trp	Leu	Leu	Val	Ser	Ser	Leu	Ser	Asn
		355					360					365			
Met	Glu	Ala	Tyr	Phe	Ala	Gln	Gln	Glu	Lys	Ala	Leu	Lys	Glu	Val	Cys
	370					375					380				
Ala	Ser	Leu	Glu	His	Gln	Val	Ser	Glu	Ala	Gln	Leu	Asp	Pro	Ala	Ala
385					390					395					400

<210> 9055

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 9055

Ser	Pro	Pro	Asn	Val	Ser	Gln	Arg	Lys	Asp	Pro	Pro	Asp	Phe	Thr	Pro
1				5					10					15	
Arg	Arg	Phe	Ile	Phe	Asn	His	Ser	Ser	Ser	Ile	Leu	Ser	Val	Ile	Thr
			20					25					30		
Thr	Gly	Ser	Trp	Lys	Thr	Asn	Met	Lys	Arg	Thr	Lys	Thr	Met	Asn	His
		35					40					45			
Ala	Ser	Phe	Arg	Lys	Ser	Trp	Asn	Ala	Arg	His	Leu	Thr	Pro	Val	Ala
	50					55					60				
Leu	Ala	Val	Thr	Ala	Val	Phe	Met	Leu	Ala	Gly	Cys	Glu	Gln	Asn	Asp
65					70					75					80
Glu	Thr	Val	Ser	Leu	Tyr	Gln	Asn	Ala	Asp	Asp	Cys	Ala	Ser	Ala	Thr
				85					90					95	
Gly	Lys	Ala	Ala	Glu	Cys	Thr	Thr	Ala	Tyr	Asn	Asn	Ala	Leu	Lys	Glu
			100					105					110		
Ala	Glu	Arg	Thr	Ala	Pro	Lys	Tyr	Ala	Ser	Arg	Glu	Asp	Cys	Val	Ala
		115					120					125			
Glu	Phe	Gly	Glu	Gly	Gln	Cys	Gln	Gln	Ala	Pro	Ala	Gln	Ala	Gly	Met
		130				135					140				
Ala	Pro	Glu	Asn	Gln	Ala	Gln	Ala	Gln	Ser	Ser	Gly	Ser	Phe	Trp	Met
145					150					155					160
Pro	Leu	Met	Ala	Gly	Tyr	Met	Met	Gly	Arg	Leu	Met	Ser	Gly	Gly	Ala
				165					170					175	
Gly	Tyr	Gln	Gln	Gln	Pro	Leu	Phe	Ser	Ser	Lys	Asn	Pro	Asn	Ser	Pro
			180					185					190		
Ala	Tyr	Gly	Lys	Tyr	Thr	Asp	Ala	Thr	Gly	Lys	Gly	Tyr	Gly	Ala	Ala
		195					200					205			

Thr Pro Gly Arg Thr Met Thr Val Pro Lys Thr Ala Met Ala Pro Lys
 210 215 220
 Pro Ala Thr Thr Ser Thr Ile Thr Arg Gly Gly Phe Gly Glu Ser Val
 225 230 235 240
 Ala Lys Gln Thr Thr Met Gln Arg Ser Ala Thr Gly Ser Ser Thr Arg
 245 250 255
 Ser Met Gly Gly
 260

<210> 9056
 <211> 125
 <212> PRT
 <213> Enterobacter cloacae

<400> 9056
 Lys Lys Ser Thr Tyr Ser Ala Pro Glu Arg Cys Tyr Val Ser Leu Thr
 1 5 10 15
 Asn Gly Lys Ser Ile Lys Met Arg Lys Leu Thr Ser Phe Leu Leu Thr
 20 25 30
 Leu Leu Leu Thr Thr Leu Pro Leu Lys Glu Ala Leu Ala Leu Asn Cys
 35 40 45
 Tyr Leu Gly Gly Ser Gly Gly Pro Val Glu Glu Thr Lys Thr Ile Ser
 50 55 60
 Pro Phe Ala Ile Pro Ser Asn Ala Gln Val Gly Gln Lys Ile Trp Glu
 65 70 75 80
 Ser Asp Asp Ile Lys Ile Pro Val Thr Cys Asp Asn Asn Val Thr Ser
 85 90 95
 Gly Phe Lys Pro Glu Asp Val Phe Ala Trp Val Asn Pro Tyr Pro Ala
 100 105 110
 Ala Thr Asp Pro Tyr Tyr Glu Leu Gly Val Thr Leu
 115 120 125

<210> 9057
 <211> 526
 <212> PRT
 <213> Enterobacter cloacae

<400> 9057
 Lys Glu Arg Arg Ser Val Asn Arg Ser Leu Cys Leu Ile Thr Lys Cys
 1 5 10 15
 Asp Phe Cys His Leu Leu Pro Val Val Thr Val Arg Asp Thr Thr Gln
 20 25 30
 Pro His Lys Lys Lys Met Ala Glu Ile Thr Asp Ser Thr Pro Leu Pro
 35 40 45
 Ala Ala Gly Asn Thr Pro Asp Gly Asp Ile Lys Trp Val Arg Ser Ala
 50 55 60
 Ser Asp Val Ser Arg Leu Val Asn Asp Gly Ser Gln Gly Arg Ala Asn
 65 70 75 80
 Ala Arg Ile Val Val Gly Ile Ala Leu Gly Gly Ile Phe Leu Asp Ala
 85 90 95
 Tyr Asp Leu Gly Ala Leu Ala Phe Gly Ile Lys Asp Ile Thr Arg Glu
 100 105 110
 Phe Asn Leu Thr Pro Ala Gly Thr Gly Met Val Ala Ser Ala Ile Thr
 115 120 125
 Phe Gly Ala Ile Val Gly Ala Leu Leu Gly Gly Tyr Leu Thr Asp Lys
 130 135 140
 Ile Gly Arg Tyr Arg Val Phe Met Ala Asp Met Val Phe Phe Val Val
 145 150 155 160
 Ala Ala Ile Ala Cys Ala Leu Ala Pro Asn Glu Tyr Val Leu Ala Gly
 165 170 175
 Ala Arg Phe Val Met Gly Leu Gly Val Gly Ile Asp Leu Pro Val Ala

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<210> 9058
<211> 282
<212> PRT
<213> Enterobacter cloacae
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<400> 9058															
Cys	Gly	Ser	Gly	Ser	Thr	Met	Leu	Ala	Thr	Gln	Val	Thr	Asp	Asn	Ser
1				5					10					15	
Tyr	Lys	Gly	Trp	Gln	Ala	Ser	Leu	Ala	Leu	Gln	Phe	Cys	His	Thr	Pro
			20					25					30		
Glu	Lys	Thr	Leu	Leu	His	Ser	Ala	Arg	His	Thr	Gly	Pro	Leu	Thr	Val
		35					40					45			
Gln	Arg	Pro	Phe	Tyr	Pro	Glu	Gly	Glu	Thr	Cys	His	Leu	Tyr	Leu	Leu
	50					55					60				
His	Pro	Pro	Gly	Gly	Ile	Val	Gly	Gly	Asp	Thr	Leu	Asp	Ile	Ser	Val
65				70						75				80	
Arg	Leu	Asp	Ala	Lys	Ser	His	Ala	Leu	Ile	Thr	Met	Pro	Gly	Ala	Ser

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<210> 9059
<211> 133
<212> PRT
<213> Enterobacter cloacae
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<210> 9060
<211> 242
<212> PRT
<213> Enterobacter cloacae
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<400> 9060
Asn Leu Arg Trp Arg Ala Asp Arg Leu Cys Pro Ala Gly Ala Asp Glu
1      5      10
Leu Met Glu His Ala Arg Gln Arg Leu Arg Leu Met Gln Leu Ser Ser
      20      25      30

```

Ser Ser Leu Pro Val Gly Ser Phe Thr Trp Ser Gln Gly Leu Glu Trp
 35 40 45
 Ala Val Glu Ala Gly Trp Val Thr Asp Ala Glu Ala Phe Arg Arg Trp
 50 55 60
 Gln Ile Gln Gln Met Glu Gln Ser Phe Phe Cys Val Asp Leu Pro Leu
 65 70 75 80
 Phe Ile Arg Leu Tyr Arg Ala Cys Glu Lys Gln Asp Val Ala Thr Ala
 85 90 95
 Lys Arg Trp Thr Ala Tyr Leu Leu Ala Cys Arg Glu Thr Arg Glu Leu
 100 105 110
 Arg Asp Glu Glu Arg Asn Arg Gly Ala Ala Phe Thr Arg Leu Ile Lys
 115 120 125
 Ser Trp Glu Pro Ala Cys Pro Pro Glu Trp Leu Pro Leu Leu Thr Gln
 130 135 140
 Ser Gln Leu Cys Gly Met Ala Trp Leu Gly Val Arg Trp Gly Ile Ser
 145 150 155 160
 Ala Arg Glu Leu Ala Leu Ser Leu Gly Tyr Ser Trp Ile Glu Ser Ala
 165 170 175
 Val Met Ala Gly Val Lys Leu Val Pro Phe Gly Gln Gln Ala Ala Gln
 180 185 190
 Gln Leu Ile Ile Asp Leu Ser Asp His Phe Ala Ala Gly Phe Glu Gln
 195 200 205
 Ala Phe Leu Arg Gly Asp Asp Ala Leu Gly Ala Ala Thr Pro Leu Ser
 210 215 220
 Ala Ile Ala Ser Ala Arg His Glu Thr Gln Tyr Ser Arg Leu Phe Arg
 225 230 235 240
 Ser

<210> 9061

<211> 209

<212> PRT

<213> Enterobacter cloacae

<400> 9061

Gly Val Asn Met Ala Asp Tyr Lys His Pro Leu Arg Val Gly Val Gly
 1 5 10 15
 Gly Pro Val Gly Ser Gly Lys Thr Ala Leu Leu Glu Ala Leu Cys Lys
 20 25 30
 Ala Met Arg Asp Thr Tyr His Leu Ala Val Val Thr Asn Asp Ile Tyr
 35 40 45
 Thr Lys Glu Asp Gln Arg Ile Leu Thr Glu Ala Gly Ala Leu Glu Pro
 50 55 60
 Glu Arg Ile Val Gly Val Glu Thr Gly Gly Cys Pro His Thr Ala Ile
 65 70 75 80
 Arg Glu Asp Ala Ser Met Asn Leu Ala Ala Val Glu Ala Leu Ser Glu
 85 90 95
 Lys Phe Gly Asn Leu Asp Leu Ile Phe Val Glu Ser Gly Gly Asp Asn
 100 105 110
 Leu Ser Ala Thr Phe Ser Pro Glu Leu Ala Asp Leu Thr Ile Tyr Val
 115 120 125
 Ile Asp Val Ala Glu Gly Glu Lys Ile Pro Arg Lys Gly Gly Pro Gly
 130 135 140
 Ile Thr Lys Ser Asp Phe Leu Val Ile Asn Lys Thr Asp Leu Ala Pro
 145 150 155 160
 Tyr Val Gly Ala Ser Leu Glu Val Met Glu Arg Asp Thr Asn Arg Met
 165 170 175
 Arg Gly Glu Arg Pro Trp Thr Phe Thr Asn Leu Lys Ala Gly Asp Gly
 180 185 190
 Leu Gly Thr Ile Ile Ala Phe Leu Glu Glu Lys Gly Met Leu Arg Val
 195 200 205

<210> 9062
 <211> 604
 <212> PRT
 <213> Enterobacter cloacae

<400> 9062

Gly	Arg	Ala	Ser	Gly	Arg	Asn	Ala	Arg	Leu	Val	Phe	Val	Tyr	Lys	Ser
1			5						10					15	
Leu	Lys	Phe	Leu	Gly	His	Met	Ala	Gly	Arg	Ile	Pro	Arg	Val	Phe	Ile
		20						25					30		
Asn	Asp	Leu	Leu	Ala	Arg	Thr	Asp	Ile	Val	Asp	Leu	Ile	Asp	Ala	Arg
		35					40					45			
Val	Lys	Leu	Lys	Lys	Gln	Gly	Lys	Asn	Tyr	His	Ala	Cys	Cys	Pro	Phe
	50					55					60				
His	Asn	Glu	Lys	Thr	Pro	Ser	Phe	Thr	Val	Asn	Gly	Glu	Lys	Gln	Phe
65					70					75					80
Tyr	His	Cys	Phe	Gly	Cys	Gly	Ala	His	Gly	Asn	Ala	Val	Asp	Phe	Leu
			85						90					95	
Met	Asn	Tyr	Asp	Lys	Leu	Glu	Phe	Val	Glu	Thr	Gly	Arg	Arg	Leu	Ala
		100						105					110		
Ala	Met	His	Asn	Leu	Glu	Val	Pro	Tyr	Glu	Ala	Gly	Ser	Gly	Pro	Ser
	115						120					125			
Gln	Ile	Glu	Arg	His	Gln	Arg	Gln	Thr	Leu	Tyr	Gln	Leu	Met	Asp	Gly
	130					135					140				
Leu	Asn	Ser	Phe	Tyr	Gln	Gln	Ser	Leu	Lys	His	Ser	Ala	Ala	Glu	Pro
145					150					155					160
Ala	Arg	Gln	Tyr	Leu	Asn	Lys	Arg	Gly	Leu	Ser	Asp	Asp	Val	Ile	Ala
			165					170						175	
Arg	Phe	Ala	Ile	Gly	Tyr	Ala	Pro	Pro	Gly	Trp	Asp	Asn	Val	Leu	Lys
		180						185					190		
Arg	Phe	Gly	Gly	Asn	Ser	Glu	Asp	Arg	Lys	Ser	Leu	Ile	Asp	Ala	Gly
	195						200					205			
Met	Leu	Val	Thr	Asn	Asp	Gln	Gly	Arg	Ser	Tyr	Asp	Arg	Phe	Arg	Glu
	210					215					220				
Arg	Val	Met	Phe	Pro	Ile	Arg	Asp	Lys	Arg	Gly	Arg	Val	Ile	Gly	Phe
225					230					235					240
Gly	Gly	Arg	Val	Leu	Gly	Asp	Ala	Leu	Pro	Lys	Tyr	Leu	Asn	Ser	Pro
			245						250					255	
Glu	Thr	Asp	Ile	Phe	His	Lys	Gly	Arg	Gln	Leu	Tyr	Gly	Leu	Tyr	Glu
		260						265					270		
Ala	Gln	Gln	Asp	Asn	Ala	Glu	Pro	Pro	Arg	Leu	Leu	Val	Val	Glu	Gly
	275						280					285			
Tyr	Met	Asp	Val	Val	Ala	Leu	Ala	Gln	Tyr	Asp	Ile	Asn	Tyr	Ala	Val
	290					295					300				
Ala	Ser	Leu	Gly	Thr	Ser	Thr	Thr	Ala	Asp	His	Ile	Gln	Leu	Leu	Phe
305					310					315					320
Arg	Val	Thr	Asn	Asn	Val	Ile	Cys	Cys	Tyr	Asp	Gly	Asp	Arg	Ala	Gly
			325						330					335	
Arg	Asp	Ala	Ala	Trp	Arg	Ala	Leu	Glu	Thr	Ala	Leu	Pro	Tyr	Met	Thr
		340						345					350		
Asp	Gly	Arg	Gln	Leu	Arg	Phe	Met	Phe	Leu	Pro	Asp	Gly	Glu	Asp	Pro
	355						360					365			
Asp	Thr	Leu	Val	Arg	Lys	Glu	Gly	Lys	Ala	Ala	Phe	Glu	Ala	Arg	Met
	370					375					380				
Glu	Gln	Ala	Gln	Pro	Leu	Ser	Thr	Phe	Leu	Phe	Asn	Ser	Leu	Met	Pro
385					390					395					400
Gln	Val	Asp	Leu	Ser	Thr	Pro	Asp	Gly	Arg	Ala	Gln	Leu	Ser	Thr	Leu
			405						410					415	

Ala Leu Pro Leu Ile Ser Gln Val Pro Gly Glu Thr Leu Arg Ile Tyr
 420 425 430
 Leu Arg Gln Glu Leu Gly Asn Lys Leu Gly Ile Leu Asp Asp Ser Gln
 435 440 445
 Leu Glu Arg Leu Met Pro Lys Gln Ala Glu Asn Gly Thr Val Arg Pro
 450 455 460
 Ala Pro Gln Leu Lys Arg Thr Thr Met Arg Ile Leu Ile Gly Leu Leu
 465 470 475 480
 Val Gln Asn Pro Glu Leu Ala Pro Gln Val Pro Ser Leu Ala Gly Leu
 485 490 495
 Asn His Glu Lys Leu Pro Gly Leu Gly Leu Phe Ser Glu Leu Val Asn
 500 505 510
 Thr Cys Leu Ser Gln Pro Gly Leu Thr Thr Gly Gln Leu Leu Glu His
 515 520 525
 Tyr Arg Gly Thr Lys Glu Ala Ala Thr Leu Glu Lys Leu Ser Met Trp
 530 535 540
 Asp Asp Ile Ala Asp Lys Asp Ile Ala Glu Lys Thr Phe Thr Asp Ser
 545 550 555 560
 Leu Asn His Met Phe Asp Ser Met Leu Glu Leu Arg Gln Glu Glu Leu
 565 570 575
 Ile Ala Arg Glu Arg Thr Gln Gly Leu Ser Ser Glu Glu Arg Arg Glu
 580 585 590
 Leu Trp Met Ile Asn Gln Glu Leu Ala Lys Lys
 595 600

<210> 9063
 <211> 168
 <212> PRT
 <213> Enterobacter cloacae

<400> 9063
 Gly Arg Asn Met Arg His Glu His Asp Gly Gly Gly Arg Arg Pro Arg
 1 5 10 15
 Phe Phe Gly His Gly Asp Leu Arg Leu Val Ile Leu Asp Ile Leu Thr
 20 25 30
 Arg Asn Ala Ser His Gly Tyr Glu Leu Ile Lys Glu Ile Glu Asn Leu
 35 40 45
 Thr Gln Gly His Tyr Thr Pro Ser Pro Gly Val Ile Tyr Pro Thr Leu
 50 55 60
 Asp Tyr Leu Gln Asp Gln Ser Leu Ile Ile Ile Thr Glu Glu Glu Asn
 65 70 75 80
 Gly Arg Lys Arg Ile Ala Ile Asn Ala Ala Gly Glu Gln Trp Leu Glu
 85 90 95
 Asp Asn Arg Glu Gln Leu Glu Gln Ile Gln Thr Arg Ile Lys Ala Arg
 100 105 110
 Ser Val Gly Phe Gln Leu Arg Lys Asn Pro Gln Met Lys Arg Ala Leu
 115 120 125
 Asp Asn Phe Lys Ala Val Leu Asp Leu Lys Val Asn Gln Gly Glu Leu
 130 135 140
 Ser Asp Ala Gln Leu Lys Gln Ile Ile Gly Val Ile Asp Arg Ala Ala
 145 150 155 160
 Leu Glu Ile Ser Gln Leu Asp
 165

<210> 9064
 <211> 261
 <212> PRT
 <213> Enterobacter cloacae

<400> 9064
 Gly Glu Cys Met Ser Val Pro Leu Ile Leu Thr Ile Leu Ala Gly Ala

1				5				10					15				
Ala	Thr	Phe	Ile	Gly	Ala	Phe	Leu	Gly	Val	Leu	Gly	Gln	Lys	Pro	Ser		
			20					25					30				
Asn	Arg	Leu	Leu	Ala	Phe	Ser	Leu	Gly	Phe	Ala	Ala	Gly	Ile	Met	Leu		
		35					40					45					
Leu	Ile	Ser	Leu	Met	Glu	Met	Leu	Pro	Ala	Ala	Leu	His	Thr	Glu	Gly		
		50				55					60						
Met	Ser	Pro	Val	Leu	Gly	Tyr	Gly	Met	Phe	Ile	Ile	Gly	Leu	Leu	Gly		
65					70					75					80		
Tyr	Phe	Ala	Leu	Asp	Arg	Ile	Leu	Pro	His	Ala	His	Pro	Gln	Asp	Leu		
				85					90					95			
Met	Gln	Lys	Ser	Val	Thr	Pro	Val	Pro	Gly	Asn	Ile	Lys	Arg	Thr	Ala		
			100					105					110				
Ile	Leu	Leu	Thr	Leu	Gly	Ile	Ser	Leu	His	Asn	Phe	Pro	Glu	Gly	Ile		
		115					120					125					
Ala	Thr	Tyr	Val	Thr	Ala	Ser	Ser	Asn	Leu	Glu	Ile	Gly	Phe	Gly	Val		
		130				135					140						
Ala	Leu	Ala	Val	Ala	Leu	His	Asn	Ile	Pro	Glu	Gly	Leu	Ala	Val	Ala		
145					150					155					160		
Gly	Pro	Val	Tyr	Ala	Ala	Thr	Gly	Ser	Lys	Arg	Thr	Ala	Val	Phe	Trp		
				165					170					175			
Ala	Gly	Ile	Ser	Gly	Met	Ala	Glu	Ile	Leu	Gly	Gly	Val	Leu	Ala	Trp		
			180					185					190				
Leu	Ile	Leu	Gly	Ser	Leu	Val	Ser	Pro	Val	Val	Met	Ala	Ala	Ile	Met		
		195					200					205					
Ala	Ala	Val	Ala	Gly	Ile	Met	Val	Ala	Leu	Ser	Val	Asp	Glu	Leu	Met		
		210				215					220						
Pro	Leu	Ala	Lys	Glu	Ile	Asp	Pro	Asn	Asn	Asn	Pro	Ser	Tyr	Gly	Val		
225					230				235					240			
Leu	Cys	Gly	Met	Ser	Val	Met	Gly	Met	Ser	Leu	Val	Leu	Leu	Gln	Thr		
				245					250					255			
Ala	Gly	Ile	Gly														
			260														

<210> 9065

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 9065

Asn	His	Leu	Lys	Ile	Tyr	Leu	Ser	His	Val	Asn	Arg	Val	Ser	Pro	Pro		
1				5					10					15			
Gln	Ser	Val	Tyr	Phe	Ser	Ser	Ile	Leu	Lys	Leu	Thr	Phe	Thr	Leu	Arg		
			20					25					30				
Ile	Asn	Leu	Lys	Lys	Asp	Ile	Phe	Met	Tyr	Met	Gly	Lys	Lys	Leu	Leu		
		35					40					45					
Leu	Ala	Ala	Ala	Met	Ala	Ala	Ile	Val	Ser	Gly	Ser	Ala	Phe	Ala	Asp		
		50				55					60						
Asp	Gln	Gly	Ser	Gly	Lys	Ile	Lys	Phe	Lys	Gly	Val	Val	Ile	Asp	Ala		
65					70					75				80			
Pro	Cys	Ser	Ile	Ala	Pro	Asp	Ser	Val	Asp	Lys	Glu	Val	Asp	Leu	Gly		
				85					90					95			
Glu	Val	Thr	Thr	Ala	Val	Ile	Asn	Ala	Asn	Lys	Lys	Ser	Thr	Pro	Val		
			100					105					110				
Pro	Val	Asp	Ile	Asn	Leu	Glu	Asn	Cys	Gln	Leu	Asp	Asp	Pro	Ala	Asp		
		115					120					125					
Glu	Thr	Asp	Thr	Pro	Ile	Thr	Lys	Val	Glu	Val	Thr	Phe	Thr	Ser	Ala		
		130				135					140						
Ala	Thr	Asp	Ala	Thr	Asp	Thr	Ser	Leu	Met	Ser	Asn	Thr	Phe	Ala	Asn		
145					150					155					160		
Gly	Ala	Gln	Asn	Val	Gly	Val	Arg	Leu	Leu	Asp	Asn	Ala	Glu	Gly	Asn		

				165				170					175				
Ile	Thr	Leu	Gly	Gln	Pro	Asn	Val	Leu	Asp	Leu	Leu	Ala	Gly	Ser	Thr		
			180					185					190				
Thr	Gln	Thr	Leu	His	Phe	Lys	Ala	Val	Met	Glu	Val	Pro	Thr	Gly	Lys		
		195					200					205					
Thr	Ala	Thr	Ala	Gly	Gln	Val	Glu	Ala	Thr	Ala	Asn	Tyr	Val	Leu	Met		
	210					215					220						
Tyr	Lys																
225																	

<210> 9066

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 9066

Asp	Ala	Thr	Gly	Gln	Pro	Asn	Gly	Val	Asp	Thr	Arg	Gln	Cys	Leu	Asp		
1				5				10						15			
Asn	Asp	Asn	Ile	Thr	Ile	Tyr	Thr	Pro	Asp	Gln	Ile	Arg	Gln	Met	Gly		
		20						25					30				
Trp	Glu	Asn	Arg	Ile	Cys	Ser	Gly	Asn	Pro	Asp	Asp	Ile	His	Ile	Thr		
	35						40					45					
Arg	Thr	Phe	Val	Ala	Arg	Leu	Arg	Leu	Phe	Val	Arg	Ile	Lys	Ala	Met		
	50					55					60						
Pro	Pro	His	Gly	Tyr	Val	Ser	Ser	Leu	Ser	Asp	Tyr	Ile	Val	Val	Gln		
65					70					75					80		
Phe	Asp	Gly	Lys	Gly	Gly	Val	Asn	Gln	Met	Ala	Asp	Ala	Lys	Asn	Leu		
			85						90					95			
Lys	Tyr	His	Ile	Asn	Gly	Leu	Gln	Asn	Ile	Thr	Val	Leu	Asp	Cys	Gly		
		100						105					110				
Ala	Thr	Phe	Thr	Ile	Tyr	Pro	Glu	Asn	Gln	Glu	Ile	Asp	Phe	Gly	Thr		
		115					120					125					
Phe	Ser	Ala	Arg	Asp	Ile	Val	Asn	Gln	Gln	Thr	Arg	Met	Arg	Thr	Phe		
	130					135					140						
Ser	Ile	Arg	Thr	Thr	Lys	Val	Gln	Asp	Ala	Gln	Cys	Ser	Asp	Gly	Phe		
145					150					155					160		
Lys	Met	Asp	Ser	Ser	Phe	Tyr	Thr	Thr	Glu	Thr	Leu	Ser	Ala	Asp	Asp		
			165					170						175			
Thr	Ala	Val	Leu	Ile	Gly	Asn	Gly	Leu	Lys	Leu	Arg	Ile	Leu	Asn	Gly		
			180					185						190			
Thr	Ala	Pro	Tyr	Thr	Phe	Asn	Gln	Tyr	Lys	Glu	Tyr	Ala	Asp	Phe	Thr		
		195					200					205					
Gly	Asp	Lys	Met	Asn	Val	Glu	Gln	Asn	Tyr	Thr	Ala	Glu	Leu	Ser	Arg		
	210					215					220						
Glu	Glu	Gly	Lys	Ala	Ile	Gln	Ser	Gly	Pro	Phe	Glu	Thr	Val	Val	Leu		
225					230					235					240		
Phe	Lys	Ile	Asn	Tyr	His												
				245													

<210> 9067

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 9067

His	Ala	Thr	Ile	Gly	Thr	Asn	Thr	Phe	Ser	Ser	Arg	Glu	Thr	Thr	Met		
1				5				10						15			
Ile	Asp	Pro	Lys	Lys	Ile	Glu	Gln	Ile	Ala	Arg	Gln	Val	His	Glu	Ser		
		20						25					30				
Met	Pro	Lys	Gly	Ile	Arg	Glu	Phe	Gly	Asp	Asp	Val	Glu	Lys	Lys	Ile		
		35					40					45					

Arg Gln Thr Leu Gln Ala Gln Leu Val Arg Leu Asp Leu Val Ser Arg
 50 55 60
 Glu Glu Phe Asp Val Gln Thr Gln Val Leu Leu Arg Thr Arg Glu Lys
 65 70 75 80
 Leu Ala Leu Leu Glu Gln Arg Leu Thr Glu Leu Glu Asn Arg Asn Ala
 85 90 95
 Pro Glu Glu Val Lys Pro Ala Pro Ala Ile Pro Pro Val Asp Asp Gln
 100 105 110
 Ala

<210> 9068

<211> 234

<212> PRT

<213> Enterobacter cloacae

<400> 9068

Phe Arg Leu Met Met Asn Pro Leu Arg Ser Asp Thr Asp Thr Thr Thr
 1 5 10 15
 Ile Val Pro Leu Phe Met Lys Ile Thr Thr Asp Met Leu Lys Leu Arg
 20 25 30
 Leu Ile Gly Leu Thr Leu Leu Ala Phe Ser Ala Ala Thr Ala Val His
 35 40 45
 Ala Glu Glu Lys Arg Tyr Val Ser Asp Glu Leu Asn Thr Trp Val Arg
 50 55 60
 Ser Gly Pro Gly Asp Asn Tyr Arg Leu Val Gly Thr Val Asn Ala Gly
 65 70 75 80
 Glu Glu Val Thr Leu Leu Gln Thr Asn Ala Asp Thr Asn Tyr Gly Gln
 85 90 95
 Val Arg Asp Ser Ser Gly Arg Thr Ser Trp Ile Pro Leu Lys Glu Leu
 100 105 110
 Ser Thr Val Pro Ser Leu Arg Thr Arg Val Pro Asp Leu Glu Asn Gln
 115 120 125
 Val Lys Thr Leu Thr Asp Lys Leu Asn Asn Ile Asp Gly Thr Trp Asn
 130 135 140
 Gln Arg Thr Ala Glu Met Gln Gln Lys Val Ala Gln Ser Asp Ser Val
 145 150 155 160
 Ile Ala Gly Leu Lys Asp Glu Asn Gln Lys Leu Lys Asn Glu Leu Ile
 165 170 175
 Val Ala Gln Lys Lys Val Asn Ala Ala Asn Leu Gln Leu Asp Asp Lys
 180 185 190
 Gln Arg Thr Ile Ile Met Gln Trp Phe Met Tyr Gly Gly Gly Val Leu
 195 200 205
 Gly Val Gly Leu Val Leu Gly Leu Val Leu Pro His Leu Ile Pro Ser
 210 215 220
 Arg Lys Arg Lys Asp Arg Trp Met Asn
 225 230

<210> 9069

<211> 434

<212> PRT

<213> Enterobacter cloacae

<400> 9069

Leu Val Phe Ser Ala Thr Leu Thr Tyr His Leu Ala Lys Arg Glu Asn
 1 5 10 15
 Gly Ser Val Gly Val Lys Ser Tyr Leu Val Gly Gly Ala Val Arg Asp
 20 25 30
 Ala Leu Leu Gly Leu Pro Val Lys Asp Lys Asp Trp Val Val Val Gly
 35 40 45
 Ala Thr Pro Glu Ala Met Ile Asp Ala Gly Tyr Gln Gln Val Gly Arg

50 55 60
 Asp Phe Pro Val Phe Leu His Pro Lys Ser Arg Glu Glu Tyr Ala Leu
 65 70 75 80
 Ala Arg Thr Glu Arg Lys Ser Gly Ser Gly Tyr Thr Gly Phe Thr Cys
 85 90 95
 Tyr Ala Ala Pro Asp Val Thr Leu Glu Gln Asp Leu Leu Arg Arg Asp
 100 105 110
 Leu Thr Ile Asn Ala Leu Ala Gln Asp Glu Asn Gly His Ile Ile Asp
 115 120 125
 Val Tyr Gly Gly Gln Asn Asp Leu Arg Asp Arg Leu Leu Arg His Ile
 130 135 140
 Ser Pro Ala Phe Ser Glu Asp Pro Leu Arg Val Leu Arg Val Ala Arg
 145 150 155 160
 Phe Ala Ala Arg Tyr Ala His Leu Ser Phe Arg Ile Ala Asp Glu Thr
 165 170 175
 Met Ala Leu Met Thr Ala Met Thr Asp Ala Gly Glu Leu Glu His Leu
 180 185 190
 Thr Pro Glu Arg Val Trp Lys Glu Thr Glu Asn Ala Leu Thr Thr Arg
 195 200 205
 Asn Pro Gln Ile Phe Phe Gln Val Leu Arg Asp Cys Gly Ala Leu Lys
 210 215 220
 Val Leu Phe Pro Glu Ile Asp Ala Leu Phe Gly Val Pro Ala Pro Ala
 225 230 235 240
 Lys Trp His Pro Glu Ile Asp Thr Gly Ile His Thr Leu Met Thr Leu
 245 250 255
 Ser Met Ala Ala Met Leu Ser Pro Glu Val Asp Val Arg Phe Ser Thr
 260 265 270
 Leu Cys His Asp Leu Gly Lys Gly Leu Thr Pro Lys Glu Leu Trp Pro
 275 280 285
 Arg His His Gly His Gly Pro Ala Gly Val Lys Leu Val Glu Gly Leu
 290 295 300
 Cys Gln Arg Leu Arg Val Pro Asn Asp Ile Arg Asp Leu Ala Lys Leu
 305 310 315 320
 Val Ala Glu Phe His Asp Leu Ile His Thr Phe Pro Ile Leu Lys Pro
 325 330 335
 Ala Thr Ile Val Arg Leu Phe Asp Asn Ile Asp Ala Trp Arg Lys Pro
 340 345 350
 Gln Arg Val Glu Gln Ile Ala Leu Thr Ser Glu Ala Asp Val Arg Gly
 355 360 365
 Arg Thr Gly Phe Glu Ala Ser Asp Tyr Pro Gln Gly Arg Leu Leu Arg
 370 375 380
 Glu Ala Trp Asp Val Ala Lys Ala Val Pro Thr Lys Glu Val Val Glu
 385 390 395 400
 Ala Gly Phe Lys Gly Pro Glu Ile Arg Glu Glu Leu Thr Lys Arg Arg
 405 410 415
 Ile Asp Ala Val Ala Ala Trp Lys Glu Lys Arg Cys Pro Gln Pro Lys
 420 425 430
 Asp

<210> 9070

<211> 245

<212> PRT

<213> Enterobacter cloacae

<400> 9070

Ile Gln Tyr Pro Ser Arg Pro Ala Cys Phe Leu Ala Lys Pro Asp Thr
 1 5 10 15
 Thr Ser Gly Glu Leu Cys Val Leu Ser Thr Asp Ala Glu Asn Thr Asp
 20 25 30
 Thr Phe Ser Lys Arg Asn Ser Val Met Ser Ala Ile Ala Pro Gly Met

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<210> 9071
<211> 569
<212> PRT
<213> Enterobacter cloacae
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1	Met	Ala	Glu	Ile	Ser	Arg	Gln	Ala	Tyr	Ala	Asp	Met	Phe	Gly	Pro
Thr	Thr	Gly	Asp	Lys	Val	Arg	Leu	Ala	Asp	Ser	Glu	Leu	Trp	Ile	Glu
Val	Glu	Asp	Asp	Leu	Thr	Ile	Tyr	Gly	Glu	Glu	Val	Lys	Phe	Gly	Gly
Gly	Lys	Val	Ile	Arg	Asp	Gly	Met	Gly	Gln	Gly	Gln	Met	Thr	Ala	Asp
Asp	Cys	Val	Asp	Leu	Val	Leu	Thr	Asn	Ala	Leu	Ile	Val	Asp	His	Trp
Gly	Ile	Val	Lys	Ala	Asp	Ile	Gly	Val	Lys	Asn	Gly	Arg	Ile	Phe	Ala
Val	Gly	Lys	Ala	Gly	Asn	Pro	Asp	Ile	Gln	Pro	Gly	Val	Thr	Ile	Pro
Ile	Gly	Ala	Ala	Thr	Glu	Val	Ile	Ala	Ala	Glu	Gly	Lys	Ile	Val	Thr
Ala	Gly	Gly	Ile	Asp	Thr	His	Ile	His	Trp	Ile	Cys	Pro	Gln	Gln	Ala
Glu	Glu	Ala	Leu	Val	Ser	Gly	Val	Thr	Thr	Met	Ile	Gly	Gly	Gly	Thr
Gly	Pro	Ala	Ala	Gly	Thr	Asn	Ala	Thr	Thr	Cys	Thr	Pro	Gly	Pro	Trp
Tyr	Ile	Ala	Arg	Met	Leu	Gln	Ala	Ala	Asp	Thr	Leu	Pro	Val	Asn	Ile
Gly	Leu	Leu	Gly	Lys	Gly	Asn	Gly	Ser	Asn	Pro	Asp	Ala	Leu	Arg	Glu
Gln	Ile	Ala	Ala	Gly	Ala	Ile	Gly	Leu	Lys	Ile	His	Glu	Asp	Trp	Gly

210	215	220
Ala Thr Pro Ala Ala Ile	Asn Cys Ser Leu Glu Val Ala Glu Glu Met	
225	230	235
Asp Ile Gln Val Ala Leu His Ser Asp Thr Leu Asn Glu Ser Gly Phe		240
	245	250
Val Glu Asp Thr Leu Ala Ala Ile Thr Gly Arg Thr Ile His Thr Phe		255
	260	265
His Thr Glu Gly Ala Gly Gly Gly His Ala Pro Asp Ile Ile Thr Ala		270
	275	280
Cys Ala His Pro Asn Ile Leu Pro Ser Ser Thr Asn Pro Thr Leu Pro		285
	290	295
Tyr Thr Val Asn Thr Ile Asp Glu His Leu Asp Met Leu Met Val Cys		300
305	310	315
His His Leu Asp Pro Asp Ile Ala Glu Asp Val Ala Phe Ala Glu Ser		320
	325	330
Arg Ile Arg Arg Glu Thr Ile Ala Ala Glu Asp Val Leu His Asp Ile		335
	340	345
Gly Ala Phe Ser Leu Thr Ser Ser Asp Ser Gln Ala Met Gly Arg Val		350
	355	360
Gly Glu Val Ile Ile Arg Thr Trp Gln Val Ala His Arg Met Lys Val		365
	370	375
Gln Arg Gly Ala Leu Pro Glu Glu Thr Gly Asp Asn Asp Asn Phe Arg		380
385	390	395
Val Lys Arg Tyr Val Ala Lys Tyr Thr Ile Asn Pro Ala Leu Thr His		400
	405	410
Gly Ile Ala Tyr Glu Val Gly Ser Val Glu Ala Gly Lys Leu Ala Asp		415
	420	425
Leu Val Val Trp Ser Pro Ala Phe Phe Gly Val Lys Pro Ala Thr Ile		430
	435	440
Val Lys Gly Gly Met Ile Ala Cys Ala Pro Met Gly Asp Ile Asn Ala		445
	450	455
Ser Ile Pro Thr Pro Gln Pro Val His Tyr Arg Pro Met Phe Gly Ser		460
465	470	475
Leu Gly Ala Ala Arg His Ala Thr Arg Leu Thr Phe Ile Ser Gln Ala		480
	485	490
Ala Ser Ala Asn Gly Ile Pro Gln Gln Leu Asn Leu Gln Ser Ala Thr		495
	500	505
Ala Val Val Lys Gly Cys Arg Thr Val Lys Lys Ala Asp Met Ile His		510
	515	520
Asn Ala Leu Gln Pro Asn Ile Thr Val Asp Ser Gln Thr Tyr Glu Val		525
	530	535
Arg Val Asp Gly Glu Leu Ile Thr Ser Glu Pro Ala Asp Val Leu Pro		540
545	550	555
Met Ala Gln Arg Tyr Phe Leu Phe		560
	565	

<210> 9072

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 9072

Gly Val Met Met Ile Tyr Leu Thr Gln Arg Leu Asp His Ala His Pro	
1	5
Thr Thr Ala Ser Val Thr Leu Pro Ile Asp Val Arg Val Lys Ser Arg	10
	20
Ala Arg Val Ala Leu Asn Asp Gly Arg Glu Ala Gly Leu Met Leu Pro	25
	30
Arg Gly Leu Leu Leu Arg Gly Gly Asp Leu Leu Thr Thr Asp Asp Gly	35
	40
Ser Glu Val Ile Glu Val Ile Ala Ala Pro Glu Ser Val Ser Val Val	45
	50
	55
	60

65					70					75				80
Arg	Cys	Ala	Asp	Pro	Phe	Leu	Leu	Ala	Arg	Ala	Cys	Tyr	His	Leu
				85					90					95
Asn	Arg	His	Val	Pro	Leu	Gln	Ile	Met	Pro	Gly	Glu	Leu	Arg	Tyr
			100					105					110	His
His	Asp	His	Val	Leu	Asp	Asp	Met	Leu	Arg	Gln	Phe	Gly	Leu	Glu
		115					120					125		Val
Thr	Phe	Ala	Ser	Leu	Pro	Phe	Glu	Pro	Glu	Ala	Gly	Ala	Tyr	Thr
	130					135					140			Ser
Asp	Ala	His	Ser	His	Gly	His	Ser	His	Ala	His	Ser	His		
145					150				155					

<210> 9073

<211> 296

<212> PRT

<213> Enterobacter cloacae

<400> 9073

Tyr	Phe	Ile	Asn	Asn	Ile	Thr	Tyr	Ser	Glu	Lys	Gln	Lys	Ser	Arg	Leu
1				5					10					15	
Pro	Arg	Arg	Asn	Lys	Arg	Leu	Tyr	Arg	Ser	Met	His	Phe	Leu	Met	Gln
			20					25					30		
His	Gly	Asn	Arg	Ile	Phe	Lys	Thr	Ser	Gly	Pro	Val	Leu	Asn	His	Arg
		35					40					45			
Gly	Asn	Leu	Arg	Ala	Leu	Phe	Asp	Gln	Val	Ser	Ile	Phe	Leu	Arg	Asn
	50					55					60				
Ala	Val	Gln	Phe	Cys	His	Gly	Thr	Gly	Gln	Leu	Cys	Gln	Ala	Cys	Arg
65					70				75						80
Leu	Leu	Gly	Gly	Gly	Val	Ala	Asp	Leu	Arg	Asp	Lys	Leu	Arg	Asp	Val
				85					90					95	
Phe	His	Leu	Leu	Asp	Asn	Ile	Ile	His	Gly	Thr	Ser	Arg	Gly	Val	Asp
			100					105					110		
Leu	Ile	Gly	Ala	Arg	Leu	His	Phe	Ala	Gly	Ala	Gly	Val	Asp	Gln	Leu
		115					120					125			
Thr	Asn	Ile	Val	Ser	Cys	Ile	Arg	Ala	Ala	Ala	Gly	Lys	Met	Thr	His
	130					135					140				
Phe	Ala	Arg	His	His	Arg	Lys	Ala	Phe	Pro	Leu	Leu	Ala	Arg	Ala	Cys
145					150				155						160
Arg	Leu	Asn	Arg	Gly	Val	Gln	Arg	Gln	Asn	Ile	Gly	Leu	Glu	Gly	Asn
				165				170						175	
Val	Ile	Asp	Lys	Arg	Gly	Asn	Arg	Ala	Asn	Ala	Leu	Gly	Thr	Val	Gly
		180						185					190		
Tyr	Val	Ile	His	Gly	Phe	His	His	Gly	Leu	His	His	Gly	Ala	Pro	Leu
		195					200					205			
Arg	Gly	Arg	Ala	Ala	Gly	Gly	His	Arg	Gln	Leu	Val	Asp	Phe	Gly	Cys
	210				215						220				
Gly	Leu	Arg	Val	Thr	Leu	His	Arg	Arg	Arg	His	Leu	Val	His	Cys	Cys
225					230					235					240
His	Gly	Leu	Leu	Asn	Val	Ser	His	Gly	Leu	Ala	Arg	Ala	Val	Val	Glu
				245					250					255	
Ile	Phe	Ile	Ala	Leu	Arg	Gln	Pro	Val	Ala	Thr	Val	Ala	His	Ala	Tyr
			260					265					270		
His	Leu	Ala	Gly	Asp	Val	Val	Asp	Gln	Pro	Ala	Ala	His	Gln	Pro	Gln
		275					280					285			
Leu	Ser	Asp	Gly	Pro	Gln	Arg									
	290					295									

<210> 9074

<211> 548

<212> PRT

<213> Enterobacter cloacae

<400> 9074

Lys	Asn	Asp	Gln	Ser	His	Lys	Val	Ser	Glu	Phe	Pro	Val	Asp	Asn	Ser
1				5					10					15	
Asp	Arg	Leu	Arg	Asn	Asn	His	Ile	Asp	Gly	Val	Asn	Met	Phe	Ile	His
			20					25					30		
Asp	Val	Lys	Ile	Gly	Thr	Lys	Leu	Phe	Leu	Ala	Phe	Gly	Leu	Phe	Ile
		35					40					45			
Val	Leu	Met	Val	Val	Ser	Ala	Ser	Leu	Ser	Leu	Met	Ser	Leu	Asn	Arg
	50					55					60				
Ala	Asn	Asn	Gly	Met	Gln	Thr	Ile	Leu	Thr	Ser	Asp	Tyr	Pro	Thr	Thr
65					70					75					80
Val	Lys	Ala	Asn	Gln	Leu	Ile	Asp	Asn	Phe	Gln	Glu	Phe	Ile	Ser	Thr
				85					90					95	
Gln	Gln	Leu	Met	Leu	Leu	Asp	Glu	Gln	Gly	Thr	Tyr	Thr	Ala	Gln	Ser
			100					105					110		
Glu	Gln	Arg	Leu	Lys	Ala	Ile	Ser	Glu	Arg	Ile	Ala	Ala	Ile	Leu	Ser
		115					120					125			
Glu	Leu	Asp	Asn	Ala	Leu	Lys	Asp	Lys	Lys	Ser	Gln	Gln	Val	Leu	Ala
	130					135					140				
Asp	Ile	His	Gly	Val	Arg	Gln	Gln	Tyr	Leu	Asp	Ser	Arg	Tyr	Arg	Ile
145					150					155					160
Leu	Gln	Ala	Val	Gln	Asn	Asn	Asp	Arg	Ala	Gly	Ala	Ile	Asn	Glu	Met
				165					170					175	
Met	Thr	Asn	Thr	Leu	Asn	Leu	Gln	Gln	Ser	Tyr	Lys	Ala	Lys	Val	Gln
			180					185					190		
Ala	Leu	Ile	Ala	Ile	Gln	Asp	His	Glu	Met	Gln	Ser	Ala	Gly	Glu	Gln
		195				200						205			
Val	Glu	Gly	Asp	Phe	Arg	Thr	Asn	Arg	Leu	Leu	Leu	Ile	Leu	Ile	Thr
	210					215					220				
Leu	Phe	Ser	Val	Ala	Ala	Ala	Ser	Leu	Thr	Gly	Trp	Phe	Ile	Val	Arg
225					230					235					240
Ser	Ile	Thr	Arg	Pro	Leu	Asn	Asp	Ala	Val	Asn	Phe	Ala	Glu	Ala	Ile
				245					250					255	
Ala	Asp	Gly	Asp	Leu	Thr	Gly	Ser	Ile	Thr	Ser	His	Gly	Lys	Asp	Glu
			260					265					270		
Thr	Gly	Leu	Leu	Leu	Thr	Ala	Leu	Met	Glu	Met	Lys	Thr	Arg	Leu	Leu
		275					280					285			
Glu	Ile	Val	Gln	Gln	Val	Gln	Thr	Gly	Ser	Glu	Asn	Ile	Ser	Ser	Ala
	290					295					300				
Ala	Ala	Gln	Ile	Val	Ala	Gly	Asn	Gln	Asp	Leu	Ala	Ala	Arg	Thr	Glu
305					310					315					320
Glu	Gln	Ala	Ser	Ser	Val	Glu	Gln	Thr	Ala	Ala	Ser	Met	Glu	Gln	Ile
				325					330					335	
Thr	Ala	Thr	Val	Lys	Asn	Thr	Ala	Ser	His	Thr	Gly	Glu	Ala	Thr	Asn
			340					345					350		
Leu	Ser	Ala	Asp	Ala	Ala	Ala	Val	Lys	Asn	Asn	Gly	Glu	Met	Met	
		355					360				365				
Lys	Gln	Val	Thr	Ser	Lys	Met	Arg	Leu	Ile	Asn	Glu	Thr	Ser	Asn	Arg
	370					375					380				
Met	Ser	Asp	Ile	Ile	Asp	Leu	Ile	Asp	Ala	Ile	Ala	Phe	Gln	Thr	Asn
385					390					395					400
Ile	Leu	Ala	Leu	Asn	Ala	Ala	Val	Glu	Ala	Ala	Arg	Ala	Gly	Glu	His
				405					410					415	
Gly	Arg	Gly	Phe	Ala	Val	Val	Ala	Gly	Glu	Val	Arg	Gln	Leu	Ala	Gln
			420					425					430		
Lys	Ser	Ala	Thr	Ser	Ala	Ser	Glu	Ile	Arg	Gln	Leu	Ile	Glu	Ser	Ser
		435					440					445			
Thr	Ser	Gln	Thr	Gln	Asp	Gly	Met	Asn	Leu	Val	Glu	Lys	Ala	Ser	Gly
	450					455					460				
Leu	Ile	Asn	Gly	Met	Val	Gly	Asn	Val	Glu	Glu	Met	Asp	Val	Ile	Leu

465 470 475 480
 Arg Glu Ile Arg Gln Ala Ser His Glu Gln Thr Glu Gly Ile Ser Gln
 485 490 495
 Ile Asn Ser Ala Ile Gly Leu Ile Asp Ala Thr Thr Gln Gln Asn Ser
 500 505 510
 Ala Leu Val Glu Glu Ser Val Ala Ala Ala Ser Leu Asn Glu Gln
 515 520 525
 Ala Met His Leu Lys Glu Leu Val Arg Val Phe Arg Val Ser Asp Gly
 530 535 540
 Val Leu Ala
 545

<210> 9075

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 9075

Gln Ser Leu Ser Leu Lys Ile His Ser Asp Ile Ser Tyr Ser Pro Glu
 1 5 10 15
 Lys Gly Ile Asn Met Ala Ser Thr Arg Tyr Pro Gln Arg Val Arg Asn
 20 25 30
 Asp Leu Arg Phe Arg Glu Leu Asn Val Met Arg Thr Glu Arg Val Ser
 35 40 45
 Ala Gly Phe Gln Arg Ile Val Leu Gly Gly Glu Ala Leu Glu Gly Phe
 50 55 60
 Ser Ser Arg Gly Phe Asp Asp His Thr Lys Val Phe Phe Pro Ala Pro
 65 70 75 80
 Gly Thr Thr Phe Val Pro Pro Val Val Thr Asp Glu Gly Ile Asp Trp
 85 90 95
 Gly Asp Gly Val Arg Pro Gln Ala Arg Asp Tyr Thr Pro Leu Tyr Asp
 100 105 110
 Asp Glu Lys His Glu Leu Ala Leu Asp Phe Phe Val His Asp Gly Gly
 115 120 125
 Ile Ala Ser Asn Trp Ala Val Glu Ala Lys Val Gly Asp Lys Leu Thr
 130 135 140
 Ile Gly Gly Pro Arg Gly Ser Leu Val Val Pro Glu Asp Tyr Ala Trp
 145 150 155 160
 Gln Leu Tyr Val Cys Asp Glu Ser Gly Met Pro Ala Leu Arg Arg Arg
 165 170 175
 Leu Glu Gly Ile Ala Lys Leu Pro Val Arg Pro Ala Ile His Ala Ile
 180 185 190
 Val Thr Val Gly Asp Ala Ala Tyr Gln Asp Tyr Leu Ala His Leu Ser
 195 200 205
 Gly Phe Asn Ile Thr Trp Val Ile Gly His Asn Glu Gln Ala Val Ala
 210 215 220
 Asp His Leu Ala Ala Leu Asp Val Pro Glu Glu Asp Tyr Phe Ile Trp
 225 230 235 240
 Leu Thr Gly Glu Gly Lys Val Val Lys Arg Leu Ser Arg Gln Phe Glu
 245 250 255
 Thr Asp Ala Ile Asp Pro Gln Leu Val Arg Ala Ser Ala Tyr Trp His
 260 265 270
 Ala Lys
 275

<210> 9076

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 9076

Pro Lys Ser Arg Gln Val Val Met Asp Ile Val Phe Ile Glu Gln Leu
 1 5 10 15
 Ser Val Ile Thr Thr Ile Gly Val Tyr Asp Trp Glu Gln Thr Ile Glu
 20 25 30
 Gln Lys Leu Val Phe Asp Ile Glu Met Gly Trp Asp Asn Arg Lys Ser
 35 40 45
 Ala Lys Ser Asp Asp Val Asn Asp Cys Leu Ser Tyr Ala Asp Ile Ser
 50 55 60
 Glu Thr Val Ile Gly His Val Glu Gly Gln Arg Phe Ala Leu Val Glu
 65 70 75 80
 Arg Val Ala Glu Glu Val Ala Asp Leu Leu Leu Ser Lys Phe Asn Ser
 85 90 95
 Pro Trp Val Arg Ile Lys Leu Ser Lys Pro Gly Ala Val Ala Arg Ala
 100 105 110
 Ala Asn Val Gly Val Ile Ile Glu Arg Gly Thr Asn Leu Lys Gly Lys
 115 120 125
 Ile
 130

<210> 9077

<211> 274

<212> PRT

<213> Enterobacter cloacae

<400> 9077

Met Ser Asp Met His Ser Leu Leu Val Ala Ala Ile Leu Gly Val Val
 1 5 10 15
 Glu Gly Leu Thr Glu Phe Leu Pro Val Ser Ser Thr Gly His Met Ile
 20 25 30
 Ile Val Gly His Leu Leu Gly Phe Glu Gly Asp Thr Ala Lys Thr Phe
 35 40 45
 Glu Val Val Ile Gln Leu Gly Ser Ile Leu Ala Val Val Val Met Phe
 50 55 60
 Trp Arg Arg Leu Phe Gly Leu Ile Gly Ile His Phe Gly Arg Leu Pro
 65 70 75 80
 Gln Arg Glu Gly Glu Gly Lys Gly Arg Leu Thr Leu Ile His Ile Leu
 85 90 95
 Leu Gly Met Ile Pro Ala Val Val Leu Gly Leu Val Phe His Asp Thr
 100 105 110
 Ile Lys Ser Leu Phe Asn Pro Ile Asn Val Met Tyr Ala Leu Val Val
 115 120 125
 Gly Gly Phe Leu Leu Ile Ala Ala Glu Val Leu Lys Pro Lys Thr Pro
 130 135 140
 Arg Ala Glu Gly Leu Asp Asp Met Thr Tyr Arg Gln Ala Phe Met Ile
 145 150 155 160
 Gly Cys Phe Gln Cys Leu Ala Leu Trp Pro Gly Phe Ser Arg Ser Gly
 165 170 175
 Ala Thr Ile Ser Gly Gly Met Leu Met Gly Val Ser Arg Tyr Ala Ala
 180 185 190
 Ser Glu Phe Ser Phe Leu Leu Ala Val Pro Met Met Met Gly Ala Thr
 195 200 205
 Ala Leu Asp Leu Tyr Lys Ser Ile Gly Phe Leu Thr Val Gly Asp Ile
 210 215 220
 Pro Met Phe Ala Val Gly Phe Ile Thr Ala Tyr Ile Val Ala Leu Ile
 225 230 235 240
 Ala Ile Lys Thr Phe Leu Gln Leu Ile Lys Arg Ile Ser Phe Ile Pro
 245 250 255
 Phe Ala Ile Tyr Arg Phe Ile Val Ala Ala Val Tyr Val Val Phe
 260 265 270
 Phe

<210> 9078
 <211> 504
 <212> PRT
 <213> Enterobacter cloacae

<400> 9078

Arg	Thr	Met	Ser	Pro	Arg	Asn	Glu	Tyr	Pro	Leu	Asp	Asp	Asp	Thr	Thr
1				5					10					15	
Leu	Met	Ser	Thr	Thr	Asp	Leu	His	Ser	Tyr	Met	Thr	His	Thr	Asn	Asp
			20					25					30		
Thr	Phe	Val	Gln	Val	Ser	Gly	Phe	Thr	Leu	Gln	Glu	Leu	Leu	Gly	Gln
		35					40					45			
Pro	His	Asn	Ile	Val	Arg	His	Pro	Asp	Met	Pro	Lys	Ala	Ala	Phe	Ala
	50					55					60				
Asp	Met	Trp	Tyr	Thr	Leu	Gln	Lys	Gly	Glu	Pro	Trp	Ser	Gly	Ile	Val
65					70					75					80
Lys	Asn	Arg	Arg	Lys	Asn	Gly	Asp	His	Tyr	Trp	Val	Arg	Ala	Asn	Ala
				85					90					95	
Val	Pro	Met	Val	Arg	Asn	Gly	Gln	Met	Thr	Gly	Tyr	Met	Ser	Ile	Arg
		100						105					110		
Thr	Arg	Ala	Thr	Glu	Asp	Glu	Val	Ala	Ala	Val	Glu	Pro	Leu	Tyr	Lys
		115					120					125			
Ala	Leu	Asn	Glu	Gly	Arg	Ser	Lys	Lys	Arg	Ile	His	Lys	Gly	Leu	Val
	130					135					140				
Val	Arg	Lys	Gly	Trp	Leu	Gly	Lys	Leu	Pro	Ala	Met	Pro	Leu	Arg	Trp
145					150					155					160
Arg	Val	Arg	Ser	Val	Met	Ala	Val	Leu	Phe	Ala	Val	Met	Ala	Ala	Thr
				165					170					175	
Leu	Val	Ala	Ser	Ala	Ala	Gly	Trp	Ala	Ser	Leu	Val	Ala	Ala	Ala	Val
			180					185					190		
Leu	Met	Leu	Leu	Gly	Thr	Leu	Val	Phe	Glu	Gln	Gln	Ile	Val	Arg	Pro
		195					200					205			
Val	Glu	Asn	Val	Ala	Arg	Gln	Ala	Leu	Arg	Val	Ala	Thr	Gly	Glu	Arg
	210					215					220				
Asn	Ser	Val	Gln	His	Leu	Asn	Arg	Ser	Asp	Glu	Leu	Gly	Leu	Thr	Leu
225					230					235					240
Arg	Ala	Val	Gly	Gln	Leu	Gly	Leu	Met	Cys	Arg	Trp	Leu	Ile	Asn	Asp
				245					250					255	
Val	Ser	Ser	Gln	Val	Ile	Ser	Val	Arg	Asp	Gly	Ser	Asp	Arg	Leu	Ala
			260					265					270		
Gln	Gly	Asn	Glu	Asp	Leu	Asn	Asp	Arg	Thr	Arg	Gln	Thr	Val	Ala	Asn
		275					280					285			
Val	Gln	Gln	Thr	Val	Ala	Thr	Met	Asn	Gln	Met	Ala	Ala	Ser	Val	Gln
	290					295					300				
Ser	Asn	Ser	Glu	Thr	Ala	Ala	Glu	Val	Asp	Lys	Leu	Ser	Met	Ala	Ala
305					310					315					320
Ser	Ser	Ala	Ala	Thr	Gln	Gly	Gly	Thr	Val	Met	Gln	Thr	Val	Val	Lys
				325					330					335	
Thr	Met	Asp	Asp	Ile	Ala	Asp	Ser	Thr	Gln	Arg	Ile	Gly	Ser	Ile	Thr
		340						345					350		
Ser	Leu	Ile	Asn	Asp	Ile	Ala	Phe	Gln	Thr	Asn	Ile	Leu	Ala	Leu	Asn
		355					360					365			
Ala	Ala	Val	Glu	Ala	Ala	Arg	Ala	Gly	Glu	Gln	Gly	Lys	Gly	Phe	Ala
	370					375					380				
Val	Val	Ala	Gly	Glu	Val	Arg	His	Leu	Ala	Ser	Arg	Ser	Ala	Asn	Ala
385					390					395					400
Ala	Asn	Asp	Ile	Arg	Lys	Leu	Ile	Asp	Ala	Ser	Ala	Ser	Lys	Val	Gln
				405					410					415	
Ser	Gly	Ala	Asp	Gln	Val	His	Ala	Ala	Gly	Arg	Thr	Met	Asp	Asp	Ile
			420					425					430		

Val Glu Gln Val Lys Asn Val Thr Gln Leu Ile Ala Gln Ile Ser His
 435 440 445
 Ser Thr Ser Glu Gln Ala Thr Gly Leu Thr Glu Leu Thr Arg Ala Val
 450 455 460
 Ala Glu Leu Asp Ser Ile Thr Gln Lys Asn Ala Asp Leu Val Glu Glu
 465 470 475 480
 Ser Ala Gln Ile Ser Ala Met Val Lys His Arg Ala Gly Arg Leu Glu
 485 490 495
 Asp Ala Val Thr Val Leu His
 500

<210> 9079

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 9079

Thr Gly Val Glu Met Ile Asn Asp Ile Leu Ala Pro Gly Leu Arg Val
 1 5 10 15
 Val Phe Cys Gly Ile Asn Pro Gly Lys Ser Ser Ala His Thr Gly Phe
 20 25 30
 His Phe Ala His Pro Gly Asn Arg Phe Trp Lys Val Ile His Gln Ala
 35 40 45
 Gly Phe Thr Asp Lys Gln Leu Lys Pro Glu Glu Glu Gln Gln Leu Leu
 50 55 60
 Asp Thr Arg Cys Gly Ile Thr Met Leu Val Glu Arg Pro Thr Val Gln
 65 70 75 80
 Ala Ser Glu Val Asn Leu His Glu Leu Arg Ala Gly Gly Arg Glu Leu
 85 90 95
 Ile Ala Lys Ile Glu Asp Tyr Gln Pro Ala Ala Leu Ala Ile Leu Gly
 100 105 110
 Lys Gln Ala Tyr Glu Gln Ala Phe Ser Gln Arg Gly Val Lys Trp Gly
 115 120 125
 Lys Gln Asp Ile Thr Ile Gly Val Thr Gln Val Trp Val Leu Pro Asn
 130 135 140
 Pro Ser Gly Leu Asn Arg Ala Thr Leu Asp Lys Leu Val Glu Ala Tyr
 145 150 155 160
 Arg Glu Leu Asp Glu Ala Leu Val Val Arg Gly Leu
 165 170

<210> 9080

<211> 441

<212> PRT

<213> Enterobacter cloacae

<400> 9080

Arg Thr Gln Lys Tyr Lys Ala Met Ala Gln Glu Ile Glu Leu Lys Phe
 1 5 10 15
 Ile Val Glu Lys Asp Ser Ala Asp Ala Leu Arg Gln His Leu Asn Thr
 20 25 30
 Leu Ser Gly Glu His His Glu Pro Val Gln Leu Leu Asn Ile Tyr Tyr
 35 40 45
 Glu Thr Pro Asp Asn Trp Leu Arg Asn His Asp Met Gly Leu Arg Ile
 50 55 60
 Arg Gly Ala Asn Gly Arg Tyr Glu Met Thr Met Lys Ile Ala Gly Arg
 65 70 75 80
 Val Val Gly Gly Leu His Gln Arg Pro Glu Tyr Asn Ile Asp Ile Ser
 85 90 95
 Lys Pro Glu Leu Glu Leu Asp Arg Phe Pro Ala Glu Val Trp Pro Glu
 100 105 110
 Gly Met Leu Pro Ala Thr Leu Ser Ala Glu Ala Gln Pro Leu Phe Ser

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<210> 9081
<211> 959
<212> PRT
<213> Enterobacter cloacae
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Phe 1	Trp	Gln	Gly	Thr 5	Pro	Asp	Met	Pro	Leu 10	Ser	Ser	Gln	Leu	Gln	Gln
His	Trp	Gln	Thr 20	Val	Cys	Glu	Arg	Leu 25	Pro	Glu	Ser	Leu	Pro	Ala	Ser
Ser	Leu	Ser 35	Glu	Gln	Ala	Lys	Ser 40	Val	Leu	Thr	Phe	Ser 45	Asp	Phe	Val
Gln	Glu 50	Ser	Val	Ser	Ala	Asn 55	Pro	Asp	Trp	Leu	Ala 60	Glu	Leu	Glu	Ser
Ala 65	Pro	Pro	Gln	Ala	Asp 70	Glu	Trp	Arg	His 75	Tyr	Ala	Gly	Trp	Leu	Gln 80
Thr	Ala	Leu	Ala 85	Glu	Val	Ala	Asp	Glu	Ala 90	Thr	Leu	Met	Arg	Val	Leu
Arg	Gln	Phe	Arg	Arg	Arg	Val	Met	Val	Arg	Ile	Ala	Trp	Ala	Gln	Ala

Gln Pro Thr Ala Thr Asp Ala Tyr Arg Asp Glu Leu Arg Gln Tyr Leu
 595 600 605
 Leu Arg Val Pro Glu Glu Asp Glu Glu Gln Gln Leu Glu Ala Leu Arg
 610 615 620
 Gln Phe Lys Gln Ala Gln Met Leu Arg Val Ala Ala Ala Asp Ile Ala
 625 630 635 640
 Gly Thr Leu Pro Val Met Lys Val Ser Asp His Leu Thr Trp Leu Ala
 645 650 655
 Glu Ala Ile Ile Asp Ala Val Val His Gln Ala Trp Val Gln Met Val
 660 665 670
 Ala Arg Tyr Gly Gln Pro Lys His Leu Ala Asp Arg Glu Gly Arg Gly
 675 680 685
 Phe Ala Val Val Gly Tyr Gly Lys Leu Gly Gly Trp Glu Leu Gly Tyr
 690 695 700
 Ser Ser Asp Leu Asp Leu Ile Phe Leu His Asp Cys Pro Ala Asp Val
 705 710 715 720
 Met Thr Asp Gly Glu Arg Glu Ile Asp Gly Arg Gln Phe Tyr Leu Arg
 725 730 735
 Leu Ala Gln Arg Ile Met His Leu Phe Ser Thr Arg Thr Ser Ser Gly
 740 745 750
 Ile Leu Tyr Glu Val Asp Ala Arg Leu Arg Pro Ser Gly Ala Ala Gly
 755 760 765
 Met Leu Val Thr Ser Thr Glu Ala Phe Ala Asp Tyr Gln Lys Asn Glu
 770 775 780
 Ala Trp Thr Trp Glu His Gln Ala Leu Val Arg Ala Arg Val Val Tyr
 785 790 795 800
 Gly Asp Pro Gln Leu Lys Thr Gln Phe Asp Ala Ile Arg Lys Ala Val
 805 810 815
 Met Thr Thr Pro Arg Glu Gly Ser Thr Leu Gln Thr Glu Val Arg Glu
 820 825 830
 Met Arg Glu Lys Met Arg Ala His Leu Gly Asn Lys His Arg Asp Arg
 835 840 845
 Phe Asp Ile Lys Ala Asp Glu Gly Gly Ile Thr Asp Ile Glu Phe Ile
 850 855 860
 Thr Gln Tyr Leu Val Leu Leu His Ala His Asp Lys Pro Lys Leu Thr
 865 870 875 880
 Arg Trp Ser Asp Asn Val Arg Ile Leu Glu Leu Leu Ala Gln Asn Asp
 885 890 895
 Ile Met Asp Glu Gln Glu Ala Gln Ala Leu Thr Arg Ala Tyr Thr Thr
 900 905 910
 Leu Arg Asp Glu Leu His His Leu Ala Leu Gln Glu Gln Pro Gly His
 915 920 925
 Val Ala Leu Asp Cys Phe Ala Asp Glu Arg Ala Gln Val Thr Thr Ser
 930 935 940
 Trp Gln Lys Trp Leu Val Glu Pro Cys Val Thr Lys Gln Val
 945 950 955

<210> 9082

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 9082

Asn Glu Val Lys Gln Val Met Arg Val Leu Gly Ile Glu Thr Ser Cys
 1 5 10 15
 Asp Glu Thr Gly Ile Ala Ile Tyr Asp Asp Glu Lys Gly Leu Ala
 20 25 30
 Asn Gln Leu Tyr Ser Gln Val Lys Leu His Ala Asp Tyr Gly Gly Val
 35 40 45
 Val Pro Glu Leu Ala Ser Arg Asp His Val Arg Lys Thr Val Pro Leu
 50 55 60

Ile Gln Ala Ala Leu Lys Glu Ala Gly Leu Ser Ala Lys Asp Ile Asp
 65 70 75 80
 Ala Val Ala Tyr Thr Ala Gly Pro Gly Leu Val Gly Ala Leu Leu Val
 85 90 95
 Gly Ala Thr Val Gly Arg Ser Leu Ala Phe Ala Trp Asp Val Pro Ala
 100 105 110
 Ile Pro Val His His Met Glu Gly His Leu Leu Ala Pro Met Leu Glu
 115 120 125
 Asp Asn Pro Pro Ala Phe Pro Phe Val Ala Leu Leu Val Ser Gly Gly
 130 135 140
 His Thr Gln Leu Ile Ser Val Thr Gly Ile Gly Lys Tyr Glu Leu Leu
 145 150 155 160
 Gly Glu Ser Ile Asp Asp Ala Ala Gly Glu Ala Phe Asp Lys Thr Ala
 165 170 175
 Lys Leu Leu Gly Leu Asp Tyr Pro Gly Gly Pro Met Leu Ser Lys Met
 180 185 190
 Ala Ala Gln Gly Thr Glu Gly Arg Phe Val Phe Pro Arg Pro Met Thr
 195 200 205
 Asp Arg Pro Gly Leu Asp Phe Ser Phe Ser Gly Leu Lys Thr Phe Ala
 210 215 220
 Ala Asn Thr Ile Arg Asn Asn Asp Asp Ser Glu Gln Thr Arg Ala Asp
 225 230 235 240
 Ile Ala Arg Ala Phe Glu Asp Ala Val Val Asp Thr Leu Met Ile Lys
 245 250 255
 Cys Lys Arg Ala Leu Asp Gln Thr Gly Phe Lys Arg Leu Val Met Ala
 260 265 270
 Gly Gly Val Ser Ala Asn Arg Thr Leu Arg Ala Lys Leu Ala Glu Met
 275 280 285
 Met Gln Lys Arg Arg Gly Glu Val Phe Tyr Ala Arg Pro Glu Phe Cys
 290 295 300
 Thr Asp Asn Gly Ala Met Ile Ala Tyr Ala Gly Met Val Arg Leu Asn
 305 310 315 320
 Ala Gly Ala Thr Ala Asp Leu Ser Val Ser Val Arg Pro Arg Trp Pro
 325 330 335
 Leu Ala Glu Leu Pro Glu Ala
 340

<210> 9083

<211> 483

<212> PRT

<213> Enterobacter cloacae

<400> 9083

Ile Phe Leu Glu Ser Gly Met Lys Val Thr Leu Pro Glu Phe Glu Arg
 1 5 10 15
 Ala Gly Val Met Val Val Gly Asp Val Met Leu Asp Arg Tyr Trp Tyr
 20 25 30
 Gly Pro Thr Ser Arg Ile Ser Pro Glu Ala Pro Val Pro Val Val Lys
 35 40 45
 Val Asp Thr Ile Glu Glu Arg Pro Gly Gly Ala Ala Asn Val Ala Met
 50 55 60
 Asn Ile Ala Ser Leu Gly Ala His Ser Arg Leu Val Gly Leu Thr Gly
 65 70 75 80
 Ile Asp Asp Ala Ala Arg Ala Leu Ser Lys Ser Leu Ala Asp Val Asn
 85 90 95
 Val Lys Cys Asp Phe Val Ser Val Pro Thr His Pro Thr Ile Thr Lys
 100 105 110
 Leu Arg Val Leu Ser Arg Asn Gln Gln Leu Ile Arg Leu Asp Phe Glu
 115 120 125
 Glu Gly Phe Glu Gly Val Asp Pro Glu Pro Leu His Glu Arg Ile Asn
 130 135 140

Gln Ala Leu Gly Asn Ile Gly Ala Leu Val Leu Ser Asp Tyr Ala Lys
 145 150 155 160
 Gly Ala Leu Ala Ser Val Gln Thr Met Ile Gln Leu Ala Arg Lys Ala
 165 170 175
 Ser Val Pro Val Leu Ile Asp Pro Lys Gly Thr Asp Phe Glu Arg Tyr
 180 185 190
 Arg Gly Ala Thr Leu Leu Thr Pro Asn Leu Ser Glu Phe Glu Ala Val
 195 200 205
 Ala Gly Lys Cys Lys Thr Glu Glu Glu Leu Val Glu Arg Gly Met Lys
 210 215 220
 Ile Ile Ala Asp Phe Glu Leu Ser Ala Leu Leu Val Thr Arg Ser Glu
 225 230 235 240
 Gln Gly Met Thr Leu Leu Gln Pro Gly Lys Ala Pro Leu His Met Pro
 245 250 255
 Thr Gln Ala Gln Glu Val Tyr Asp Val Thr Gly Ala Gly Asp Thr Val
 260 265 270
 Ile Gly Val Leu Ala Ala Thr Leu Ala Ala Gly Asn Ser Leu Glu Glu
 275 280 285
 Ala Cys Tyr Phe Ala Asn Ala Ala Gly Val Val Val Gly Lys Leu
 290 295 300
 Gly Thr Ser Thr Val Ser Pro Ile Glu Leu Glu Asn Ala Val Arg Gly
 305 310 315 320
 Arg Ala Asp Thr Gly Phe Gly Val Met Thr Glu Asp Glu Leu Lys Val
 325 330 335
 Ala Val Ala Ala Ala Arg Lys Arg Gly Glu Lys Val Val Met Thr Asn
 340 345 350
 Gly Val Phe Asp Ile Leu His Ala Gly His Val Ser Tyr Leu Ala Asn
 355 360 365
 Ala Arg Lys Leu Gly Asp Arg Leu Ile Val Ala Val Asn Ser Asp Ala
 370 375 380
 Ser Thr Lys Arg Leu Lys Gly Glu Thr Arg Pro Val Asn Pro Leu Glu
 385 390 395 400
 Gln Arg Met Ile Val Leu Gly Ala Leu Glu Ala Val Asp Trp Val Val
 405 410 415
 Ser Phe Glu Glu Asp Thr Pro Gln Arg Leu Ile Ala Gly Ile Leu Pro
 420 425 430
 Asp Leu Leu Val Lys Gly Gly Asp Tyr Lys Pro Glu Gln Ile Ala Gly
 435 440 445
 Ser Glu Glu Val Trp Ala Asn Gly Gly Glu Val Met Val Leu Asn Phe
 450 455 460
 Glu Asp Gly Cys Ser Thr Thr Asn Ile Ile Lys Lys Ile Gln Lys Asp
 465 470 475 480
 Ser Gln

<210> 9084

<211> 222

<212> PRT

<213> Enterobacter cloacae

<400> 9084

Gly Phe Phe Thr Met Asn Gln Thr Leu Leu Ser Ser Phe Gly Thr Ser
 1 5 10 15
 Thr Gln Arg Val Glu His Ala Leu Asp Ala Leu Arg Glu Gly Arg Gly
 20 25 30
 Val Met Val Leu Asp Asp Glu Asn Arg Glu Asn Glu Gly Asp Met Ile
 35 40 45
 Phe Ala Ala Glu Asn Met Thr Val Glu Gln Met Ala Leu Thr Ile Arg
 50 55 60
 His Gly Ser Gly Ile Val Cys Leu Cys Ile Thr Glu Asp Arg Arg Gln
 65 70 75 80

Gln Leu Asp Leu Pro Met Met Val Glu Asn Asn Thr Ser Ala Phe Gly
 85 90 95
 Thr Gly Phe Thr Val Thr Ile Glu Ala His Gly Val Thr Thr Gly
 100 105 110
 Val Ser Ala Ala Asp Arg Leu Thr Thr Val Arg Ala Ala Ile Ala Asp
 115 120 125
 Gly Ala Lys Pro Ser Asp Leu His Arg Pro Gly His Val Phe Pro Leu
 130 135 140
 Arg Ala Gln Pro Gly Gly Val Leu Thr Arg Gly Gly His Thr Glu Ala
 145 150 155 160
 Thr Ile Asp Leu Val Thr Leu Ala Gly Phe Lys Pro Ala Gly Val Leu
 165 170 175
 Cys Glu Leu Thr Asn Asp Asp Gly Thr Met Ala Arg Ala Pro Glu Cys
 180 185 190
 Ile Thr Phe Ala Arg Leu His Asn Met Pro Val Val Thr Ile Glu Asp
 195 200 205
 Leu Val Glu Tyr Arg Arg Ala His Glu Arg Lys Ala Ser
 210 215 220

<210> 9085

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 9085

Ala Tyr His Ile Asp Thr Ser Ser Lys Asp Ile Thr Met Ser Ser Ser
 1 5 10 15
 Arg Met Pro Ala Leu Phe Leu Gly His Gly Ser Pro Met Asn Val Leu
 20 25 30
 Glu Asp Asn Val Tyr Thr Arg Ala Trp Arg Gln Leu Gly Glu Thr Leu
 35 40 45
 Pro Arg Pro Lys Ala Ile Val Val Ser Ala His Trp Phe Thr Arg
 50 55 60
 Gly Thr Gly Val Thr Ala Met Glu Thr Pro Lys Thr Ile His Asp Phe
 65 70 75 80
 Gly Gly Phe Pro Gln Ala Leu Tyr Asp Thr His Tyr Pro Ala Pro Gly
 85 90 95
 Ser Pro Glu Leu Ala Gln Arg Leu Val Asp Leu Leu Ala Pro Val Pro
 100 105 110
 Val Ala Leu Asp Lys Glu Ala Trp Gly Phe Asp His Gly Ser Trp Gly
 115 120 125
 Val Leu Ile Lys Met Tyr Pro Asn Ala Asp Ile Pro Met Val Gln Leu
 130 135 140
 Ser Ile Asp Ser Thr Lys Pro Ala Ala Trp His Met Glu Met Gly Arg
 145 150 155 160
 Lys Leu Ala Ser Leu Arg Asp Glu Gly Ile Met Leu Ile Ala Ser Gly
 165 170 175
 Asn Val Val His Asn Leu Arg Thr Val Arg Trp His Gly Glu Asn Thr
 180 185 190
 Pro Tyr Pro Trp Ala Thr Ala Phe Asn Asp Tyr Val Lys Asp Asn Leu
 195 200 205
 Ala Trp Gln Gly Pro Val Glu Arg His Pro Leu Val Asn Tyr Leu Glu
 210 215 220
 His Asp Gly Gly Ser Leu Ser Asn Pro Thr Pro Glu His Phe Leu Pro
 225 230 235 240
 Leu Leu Tyr Val Leu Gly Ala Trp Asp Gly Gln Glu Val Ile Thr Thr
 245 250 255
 Pro Val Asp Gly Ile Glu Met Gly Ser Leu Ser Met Leu Ser Val Gln
 260 265 270
 Val Gly
 275

<210> 9086
 <211> 302
 <212> PRT
 <213> Enterobacter cloacae

<400> 9086

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Thr Asp Ser Leu Ile Asn His Leu Phe Thr Ala Met Ser Leu Val Tyr
1      5      10      15
Asp Thr Phe Glu Thr Leu Arg Gln Gln Asn Ala Val Leu Arg Glu Thr
20      25      30
Val Ala Leu Asn Thr Gly Ile Gln Leu Ala Ala Trp Tyr Asn Lys His
35      40      45
Asp Thr Ile Thr Val Lys Ser Asn His His Thr Leu Ser Leu Tyr Val
50      55      60
Ala Asp Gly Tyr Glu Ser Tyr Gln Lys Thr Pro Gly Gly Trp Lys Asn
65      70      75      80
Gly Gly Gly Pro Asp Arg Phe Cys Leu Met Pro Glu Glu Ser Glu Ser
85      90      95
Thr Trp Asp Ile Arg Asp Asp Leu Ser Phe Val His Leu Tyr Cys Thr
100     105     110
Asp Glu His Leu Arg Asp Val Gly Glu Lys Ile Trp Asp Lys Arg Pro
115     120     125
Leu Ser Leu Thr Leu Glu Glu Lys Ile Phe Gly Ser Asp Pro Lys Ile
130     135     140
Thr Ala Leu Tyr Arg Gln Phe Leu Leu Gly Cys Asp Trp Gln Gln Asn
145     150     155     160
Ala Asn Gln Leu Thr Leu Ser Thr Ala Ser Thr Leu Leu Leu Thr His
165     170     175
Leu Val Gln His Tyr Ser Ser Val Gln Trp Lys Leu Pro Val Val Thr
180     185     190
Gly Gly Leu Ser Pro Phe Val Leu Arg Asn Val Leu Ala Phe Ile Glu
195     200     205
Glu Asn Leu Ala Gln Pro Leu Thr Leu Ala Glu Leu Ala Gly Gln Ala
210     215     220
Ala Leu Ser Glu Tyr His Phe Ala Arg Met Phe Arg Gln Ser Met Gly
225     230     235     240
Leu Ala Pro His Gln Tyr Val Met Gln Arg Arg Met Glu Lys Ala Lys
245     250     255
Ala Met Val Gln His Thr Thr Thr Pro Leu Thr Asp Ile Ala Leu Ala
260     265     270
Cys Gly Phe Asn Ser Ala Ser His Phe Ser Asn Arg Phe Arg Ser Met
275     280     285
Thr Gly Ile Thr Pro Ser Gln Leu Arg Ala Ala Lys Ala
290     295     300

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<210> 9087
 <211> 462
 <212> PRT
 <213> Enterobacter cloacae

<400> 9087

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Ile Leu Pro Leu Gln Pro Gly Thr Leu Phe Ala Leu Leu Lys Leu Thr
1      5      10      15
Leu Leu Phe Leu Arg Pro Gly Gly Asn Gly Arg Leu Arg Thr Ala Phe
20      25      30
Phe Phe Arg Ser Glu Asn Met His Arg Arg Thr Phe Ile Lys Ala Phe
35      40      45
Ala Leu Ser Ala Ser Val Val Ala Met Gly Phe Ser Phe Gly Val Gln
50      55      60
Ala Ala Glu Thr Ile Lys Val Gly Ile Met His Ser Leu Ser Gly Thr

```

65					70					75				80
Met	Ala	Ile	Ser	Glu	Thr	Pro	Leu	Lys	Asp	Val	Ala	Leu	Met	Thr
				85					90					95
Asp	Glu	Ile	Asn	Ala	Lys	Gly	Gly	Val	Leu	Gly	Lys	Lys	Leu	Glu
			100					105					110	Pro
Val	Val	Val	Asp	Pro	Ala	Ser	Asn	Trp	Pro	Leu	Phe	Ala	Glu	Lys
		115					120					125		Ala
Arg	Gln	Leu	Leu	Ser	Gln	Asp	Lys	Val	Ala	Val	Val	Phe	Gly	Cys
	130					135					140			Trp
Thr	Ser	Val	Ser	Arg	Lys	Ser	Val	Leu	Pro	Val	Phe	Glu	Glu	Leu
	145				150					155				Asn
Gly	Leu	Leu	Phe	Tyr	Pro	Val	Gln	Tyr	Glu	Gly	Glu	Glu	Met	Ser
				165					170					Pro
Asn	Val	Phe	Tyr	Thr	Gly	Ala	Ala	Pro	Asn	Gln	Gln	Ala	Ile	Pro
			180					185					190	Ala
Val	Glu	Tyr	Leu	Met	Ser	Glu	Asp	Gly	Gly	Ser	Ala	Lys	Arg	Phe
		195					200					205		Phe
Leu	Leu	Gly	Thr	Asp	Tyr	Val	Tyr	Pro	Arg	Thr	Thr	Asn	Lys	Ile
	210					215					220			Leu
Arg	Ala	Phe	Leu	His	Ser	Lys	Gly	Val	Glu	Asp	Lys	Asp	Ile	Glu
	225				230					235				Glu
Val	Tyr	Thr	Pro	Phe	Gly	His	Ser	Asp	Tyr	Gln	Thr	Ile	Val	Ala
				245					250					Ser
Ile	Lys	Lys	Phe	Ser	Ala	Gly	Gly	Lys	Thr	Ala	Val	Val	Ser	Thr
			260					265					270	Ile
Asn	Gly	Asp	Ser	Asn	Val	Pro	Phe	Tyr	Lys	Glu	Leu	Ala	Asn	Gln
		275					280					285		Gly
Leu	Lys	Ala	Thr	Asp	Val	Pro	Val	Val	Ala	Phe	Ser	Val	Gly	Glu
	290				295					300				Glu
Glu	Leu	Arg	Gly	Ile	Asp	Thr	Lys	Pro	Leu	Val	Gly	Asn	Leu	Ala
	305				310					315				Ala
Trp	Asn	Tyr	Phe	Glu	Ser	Val	Asp	Asn	Pro	Thr	Asn	Gln	Thr	Phe
			325					330						Val
Ala	Ala	Tyr	Lys	Ala	Tyr	Ala	Lys	Ala	His	Lys	Leu	Pro	Asn	Ala
			340					345					350	Asp
Thr	Val	Val	Thr	Asn	Asp	Pro	Met	Glu	Ala	Thr	Tyr	Val	Gly	Leu
		355					360					365		His
Met	Trp	Ala	Gln	Ala	Val	Glu	Lys	Ala	Gly	Thr	Thr	Asn	Val	Asp
	370					375					380			Lys
Val	Arg	Ala	Ala	Met	Ala	Gly	Gln	Ser	Phe	Asn	Ala	Pro	Ser	Gly
	385				390				395					Phe
Thr	Leu	Thr	Met	Asp	Ala	Thr	Asn	His	His	Leu	His	Lys	Pro	Val
			405					410						Met
Ile	Gly	Glu	Ile	Glu	Gly	Asn	Gly	Gln	Phe	Asn	Val	Val	Trp	Gln
			420				425						430	Thr
Glu	Gln	Pro	Val	Arg	Ala	Gln	Pro	Trp	Ser	Pro	Phe	Ile	Ala	Gly
		435					440					445		Asn
Asp	Lys	Lys	Pro	Asp	Gln	Pro	Met	Lys	Thr	Ala	Ser	Asn		
	450					455						460		

<210> 9088

<211> 364

<212> PRT

<213> Enterobacter cloacae

<400> 9088

Arg	Glu	Gly	Asp	Arg	Leu	Met	Ser	Gln	Pro	Leu	Thr	Leu	Thr	Leu	Ala
1				5				10						15	
Arg	Arg	Ala	Pro	Arg	Thr	Ala	Gln	Ile	Phe	Gly	Ser	Leu	Leu	Val	Ala
		20					25					30			
Ala	Leu	Leu	Val	Leu	Pro	Phe	Leu	Ala	Leu	Leu	Pro	Ala	Thr	His	Pro

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<210> 9089
<211> 227
<212> PRT
<213> Enterobacter cloacae
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<400> 9089																
Gly	Leu	Arg	Cys	Ile	Met	Leu	Asp	Leu	Ile	Lys	Ala	Val	Gly	Leu	Gly	
1				5					10					15		
Leu	Val	Val	Leu	Leu	Pro	Leu	Ala	Asn	Pro	Leu	Thr	Thr	Val	Ala	Leu	
			20					25					30			
Phe	Leu	Gly	Leu	Ala	Gly	Asn	Met	Asn	Ser	Ala	Glu	Arg	Asn	Gln	Gln	
		35				40						45				
Ser	Met	Met	Ala	Ser	Val	Tyr	Val	Phe	Ala	Ile	Met	Met	Val	Ala	Tyr	
	50					55					60					
Tyr	Ala	Gly	Gln	Leu	Val	Met	Asn	Thr	Phe	Gly	Ile	Ser	Ile	Pro	Gly	
65					70					75				80		
Leu	Arg	Ile	Ala	Gly	Gly	Leu	Ile	Val	Ala	Phe	Ile	Gly	Phe	Arg	Met	
				85					90					95		
Leu	Phe	Pro	Ala	His	Lys	Ala	His	Glu	Ser	Pro	Glu	Ala	Lys	Ser	Lys	

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<210> 9090
<211> 283
<212> PRT
<213> Enterobacter cloacae
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Arg 1	Thr	Arg	Leu	Phe 5	Ser	Leu	Lys	Ile	Lys 10	Asn	Asn	Thr	Thr	Lys 15	Thr
Gly	Gly	Asn	Thr	Met	Gln	Glu	Ile	Asp	Phe	Tyr	Leu	Val	Asp	Ala	Phe
			20					25					30		
Ser	Ala	Ser	Ser	Phe	Gly	Gly	Asn	Pro	Ala	Ala	Val	Cys	Pro	Leu	Asp
		35					40					45			
Ala	Trp	Leu	Thr	Asp	Glu	Thr	Leu	Leu	Arg	Met	Ala	Gln	Gln	His	Asn
	50					55					60				
Gln	Ser	Glu	Thr	Ala	Phe	Phe	Val	Cys	Thr	Lys	Gly	Gly	Ile	Glu	Leu
65					70					75				80	
Arg	Trp	Phe	Thr	Thr	Leu	Thr	Glu	Val	Asn	Leu	Cys	Gly	His	Ala	Thr
				85					90					95	
Leu	Ala	Ala	Ala	Tyr	Ile	Leu	Phe	Asn	Glu	Leu	Asp	Tyr	Pro	Asp	Ser
			100					105					110		
Arg	Leu	His	Phe	Asp	Thr	Ala	Ser	Gly	Arg	Leu	Thr	Val	Ser	Arg	Glu
		115					120					125			
Gly	Asp	Trp	Met	Thr	Leu	Asp	Phe	Pro	Ala	Cys	Pro	Thr	Gln	Ala	Gln
	130					135					140				
Thr	Pro	Pro	Pro	Glu	Leu	Leu	Thr	Ala	Leu	Gly	Ile	Ser	His	Tyr	Val
145				150						155				160	
Glu	Ala	Arg	Lys	Gly	Arg	Ala	Trp	Val	Leu	Val	Leu	Glu	Ser	Arg	Glu
			165					170						175	
Gln	Val	Glu	Ala	Ile	Asn	Pro	Asp	Phe	Ser	Ala	Met	Thr	Pro	Gly	Glu
			180					185					190		
His	Lys	Val	Ala	Val	Thr	Ala	Arg	Asp	Glu	Gly	Glu	Tyr	Asp	Phe	Ile
		195					200					205			
Ser	Arg	Phe	Phe	Ser	Pro	Gly	Val	Ala	Val	Pro	Glu	Asp	Pro	Val	Thr
		210				215					220				
Gly	Ser	Ala	His	Thr	Met	Leu	Ile	Pro	Tyr	Trp	Ser	Glu	Arg	Leu	Gly
225				230						235				240	
Lys	Thr	Gln	Met	Phe	Ala	Arg	Gln	Val	Ser	Ala	Arg	Gly	Gly	Asp	Val
			245					250						255	
Arg	Cys	Glu	Leu	Lys	Gly	Asp	Arg	Val	Arg	Met	Gly	Gly	Gln	Ala	Ala
			260					265					270		
Leu	Tyr	Leu	Lys	Gly	Thr	Val	Phe	Leu	Arg						
		275					280								

<210> 9091
 <211> 476
 <212> PRT
 <213> Enterobacter cloacae

<400> 9091

Gln	Ser	Arg	Pro	Gln	Ser	Ile	Asn	Cys	Tyr	Tyr	Val	Glu	Asp	Ile	Met
1				5					10					15	
Thr	Tyr	Ser	Ser	Ala	Thr	His	Ala	His	Ser	Val	Asn	Pro	Ala	Thr	Gly
		20						25					30		
Glu	Thr	Leu	Ala	Ala	Tyr	Pro	Trp	Ala	Thr	Ser	Arg	Asp	Val	Glu	Arg
		35					40					45			
Ala	Ile	Ala	Gln	Ala	Asp	Thr	Gly	Phe	Arg	Gln	Trp	Arg	Arg	Glu	Ser
	50					55				60					
Val	Ala	His	Arg	Ala	Gln	Lys	Leu	Arg	Asp	Leu	Gly	Ala	Ala	Leu	Arg
65					70				75					80	
Ser	Arg	Ala	Glu	Glu	Met	Ala	Gln	Thr	Ile	Ser	Arg	Glu	Met	Gly	Lys
			85					90					95		
Pro	Ile	Val	Gln	Ala	Arg	Ala	Glu	Val	Ala	Lys	Ser	Ala	Ser	Leu	Cys
			100				105						110		
Asp	Trp	Tyr	Ala	Glu	His	Gly	Pro	Ser	Met	Leu	His	Pro	Glu	Ser	Thr
		115					120					125			
Gln	Val	Glu	Asn	Ala	Val	Ile	Glu	Tyr	Arg	Pro	Leu	Gly	Pro	Ile	Leu
	130					135					140				
Ala	Val	Met	Pro	Trp	Asn	Phe	Pro	Leu	Trp	Gln	Val	Leu	Arg	Gly	Ala
145					150				155					160	
Val	Pro	Ile	Leu	Leu	Ala	Gly	Asn	Ser	Tyr	Leu	Leu	Lys	His	Ala	Pro
			165				170						175		
Asn	Val	Leu	Gly	Ser	Ala	Glu	Leu	Ile	Gly	Lys	Val	Phe	Ala	Asp	Ala
		180					185					190			
Gly	Phe	Pro	Glu	Gly	Val	Phe	Gly	Trp	Val	Asn	Ala	Thr	Asn	Asp	Gly
		195					200					205			
Val	Ser	Gln	Ala	Ile	Asn	Asp	Arg	Arg	Ile	Ala	Ala	Val	Thr	Val	Thr
	210				215						220				
Gly	Ser	Val	Arg	Ala	Gly	Ala	Ala	Ile	Gly	Ala	Gln	Ala	Gly	Ala	Ala
225					230				235					240	
Leu	Lys	Lys	Cys	Val	Leu	Glu	Leu	Gly	Gly	Ser	Asp	Pro	Phe	Ile	Val
			245					250					255		
Leu	Asn	Asp	Ala	Asp	Leu	Asp	Leu	Ala	Val	Asn	Ala	Ala	Val	Ala	Gly
		260					265						270		
Arg	Tyr	Gln	Asn	Thr	Gly	Gln	Val	Cys	Ala	Ala	Ala	Lys	Arg	Phe	Ile
		275				280						285			
Val	Glu	Ala	Gly	Val	Ala	Asp	Ala	Phe	Thr	Gln	Arg	Phe	Val	Asp	Ala
	290				295					300					
Val	Lys	Ala	Leu	Lys	Met	Gly	Ala	Pro	Asp	Glu	Glu	Asp	Asn	Tyr	Ile
305					310				315					320	
Gly	Pro	Met	Ala	Arg	Phe	Asp	Leu	Arg	Asp	Glu	Leu	His	Gln	Gln	Val
			325						330					335	
Gln	Ala	Thr	Leu	Ala	Glu	Gly	Ala	Thr	Leu	Leu	Leu	Gly	Gly	Glu	Lys
			340				345						350		
Leu	Ala	Gly	Ser	Gly	Asn	Tyr	Tyr	Ala	Pro	Thr	Val	Leu	Gly	Gly	Val
		355					360					365			
Thr	Pro	Gln	Met	Thr	Ala	Phe	Arg	Gln	Glu	Leu	Phe	Gly	Pro	Val	Ala
	370				375						380				
Ala	Ile	Thr	Val	Ala	Asn	Asp	Ala	Ala	His	Ala	Leu	Gln	Leu	Ala	Asn
385					390				395					400	
Asp	Ser	Asp	Phe	Gly	Leu	Ser	Ala	Thr	Val	Phe	Thr	Ala	Asn	Asp	Ala
			405						410				415		
Leu	Ala	Glu	Thr	Phe	Ser	Arg	Glu	Leu	Glu	Cys	Gly	Gly	Val	Phe	Ile
		420					425					430			
Asn	Gly	Tyr	Ser	Ala	Ser	Asp	Ala	Arg	Val	Ala	Phe	Gly	Gly	Val	Lys

	435		440		445
Lys	Ser Gly Phe Gly Arg Glu Leu Ser His Phe Gly Leu His Glu Phe				
	450		455		460
Cys	Asn Val Gln Thr Val Trp Lys Asp Arg Ile				
465		470		475	

<210> 9092

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 9092

Pro	Glu Gly Lys	Glu Gln Ser Val	Ala Ala Val Ile His	Asn Glu Met
1		5	10	15
Leu	Asp Glu Ile Leu Ala Gln Val	Arg Pro Leu Leu Gly Gln Gly Lys		
	20	25	30	
Val	Ala Asp Tyr Ile Pro Ala Leu Ala Ser Ile Ser Gly Asn Lys Leu			
	35	40	45	
Gly	Ile Ala Ile Cys Thr Val Asp Gly Gln Arg Phe Gln Ala Gly Asp			
	50	55	60	
Ala	Leu Glu Arg Phe Ser Ile Gln Ser Ile Ser Lys Val Leu Ser Leu			
65		70	75	80
Val	Ala Ala Met Arg Gln Tyr Asp Glu Gln Glu Ile Trp Gln Arg Val			
	85	90	95	
Gly	Lys Asp Pro Ser Gly Gln Pro Phe Asn Ser Leu Leu Gln Leu Glu			
	100	105	110	
Ile	Glu Gln Gly Lys Pro Arg Asn Pro Phe Ile Asn Ala Gly Ala Leu			
	115	120	125	
Val	Val Cys Asp Met Leu Gln Ser Arg Leu Ser Ala Pro Arg Gln Arg			
	130	135	140	
Met	Leu Gln Ile Val Arg Gln Leu Ser Gly Met Gln Asp Ile Gly Tyr			
145		150	155	160
Asp	Pro Val Val Ala Arg Ser Glu Phe Glu His Ser Ala Arg Asn Ala			
	165	170	175	
Ala	Ile Ala Trp Leu Met Lys Ser Phe Gly Asn Phe His Asn Asp Val			
	180	185	190	
Ala	Thr Val Leu Gln Asn Tyr Phe His Tyr Cys Ala Leu Lys Met Asn			
	195	200	205	
Cys	Val Glu Leu Ala Gln Thr Phe Leu Phe Leu Ala His Gln Gly His			
	210	215	220	
Ala	Pro His Leu Gly Glu Asp Val Val Ser Pro Met Gln Ala Arg Gln			
225		230	235	240
Ile	Asn Ala Leu Met Ala Thr Ser Gly Met Tyr Gln Asn Ala Gly Glu			
	245	250	255	
Phe	Ala Trp Arg Val Gly Leu Pro Ala Lys Ser Gly Val Gly Gly Gly			
	260	265	270	
Val	Val Ala Ile Val Pro His Glu Met Ala Ile Ala Val Trp Ser Pro			
	275	280	285	
Glu	Leu Asp Glu Thr Gly Asn Ser Leu Ala Gly Val Ala Ala Leu Glu			
	290	295	300	
Gln	Leu Thr Lys Arg Leu Gly Arg Ser Val Tyr			
305		310	315	

<210> 9093

<211> 329

<212> PRT

<213> Enterobacter cloacae

<400> 9093

Cys	Ser Ala Ser Gly Asp Val Met Lys Ala Pro Gln Ile Pro Val Asn
1	5 10 15

Glu Ala Glu Arg Met Asn Ala Leu Arg Glu Ser Gly Leu Leu Glu Ile
 20 25 30
 Asp Asn Tyr Pro Ala Phe Asp Arg Leu Thr Arg Leu Ala Thr Arg Phe
 35 40 45
 Phe Arg Val Pro Leu Ala Met Ile Thr Leu Val Asp Asp His Ala Ala
 50 55 60
 Ile Val Lys Ser Ala Asp Gly Arg Ala Leu Ala Ser Gln Pro Arg Asp
 65 70 75 80
 Leu Ser Phe Cys Gly His Thr Ile Leu Gly Asp Ala Pro Leu Val Val
 85 90 95
 Ser Asp Thr Leu Leu Asp Glu Arg Phe Ala Asp Asn Pro Gln Val Ala
 100 105 110
 Gly Asp Pro Gly Val Arg Phe Tyr Ala Gly Phe Pro Leu Arg Leu Arg
 115 120 125
 Asp Gly Ala Cys Val Gly Ser Leu Cys Leu Ile Asp Tyr Ala Pro Arg
 130 135 140
 Glu Phe Thr Ala Ala Asp Ala Ala Val Leu Ala Asp Leu Ser Ala Leu
 145 150 155 160
 Ala Glu Asp Glu Phe Ala Ala Val Ser Ala Ala Thr Thr Asp Glu Leu
 165 170 175
 Thr Gly Leu Phe Asn Arg Arg Gly Phe Asn Gln Phe Ala Gln Phe Ala
 180 185 190
 Leu Ser Val Ser Gln Arg Arg Ala Glu Pro Leu Thr Leu Gly Trp Leu
 195 200 205
 Asp Leu Asp His Phe Lys Thr Ile Asn Asp Arg Phe Gly His Gln Glu
 210 215 220
 Gly Asp Lys Ala Leu Lys Ala Met Ala Ala Leu Met Arg Ser Ser Phe
 225 230 235 240
 Arg Glu Ala Asp Leu Leu Val Arg Phe Gly Gly Asp Glu Phe Ala Val
 245 250 255
 Leu Phe Ala Asp Thr Asp Glu Pro Gly Ala Trp Ile Ala Met Gln Tyr
 260 265 270
 Leu Val Glu Gln Thr Glu Lys Tyr Asn Ala Arg Gln Leu His Pro Trp
 275 280 285
 Ser Leu Gln Phe Ser Trp Gly Leu Ser Glu Phe Asp His His Arg Asn
 290 295 300
 Asp Ile Gln Ala Trp Leu Lys His Ala Asp Ala Gln Met Tyr Ala Met
 305 310 315 320
 Lys Arg Gln His His Gly Glu Lys
 325

<210> 9094

<211> 488

<212> PRT

<213> Enterobacter cloacae

<400> 9094

Arg Thr Ser Ile Val Asn Thr Leu Asn Arg Arg Asp Phe Pro Gly Ala
 1 5 10 15
 Cys Tyr Pro Glu Arg Ile Ile Gln Phe Gly Glu Gly Asn Phe Leu Arg
 20 25 30
 Ala Phe Val Asp Trp Gln Ile Asp Leu Leu Asn Glu His Thr Asp Leu
 35 40 45
 Asn Ala Gly Val Val Ile Val Arg Pro Ile Gln Ser Asp Phe Pro Pro
 50 55 60
 Ser Leu Ser Thr Gln Asp Gly Leu Tyr Thr Thr Ile Ile Arg Gly Leu
 65 70 75 80
 Asn Glu Gln Gly Glu Ala Val Ser Asp Ala Arg Leu Ile Arg Ser Val
 85 90 95
 Asn Arg Glu Ile Ser Val Tyr Ser Gln Tyr Asp Glu Phe Leu Ala Leu
 100 105 110

Ala His Asn Pro Asp Met Arg Phe Val Phe Ser Asn Thr Thr Glu Ala
 115 120 125
 Gly Ile Ser Tyr His Ala Gly Asp Lys Leu Asp Asp Ala Pro Ala Ala
 130 135 140
 Ser Tyr Pro Ala Lys Leu Thr Arg Leu Leu Phe Glu Arg Phe Thr His
 145 150 155 160
 Phe Asn Gly Ala Ala Asp Lys Gly Trp Ile Ile Ile Pro Cys Glu Leu
 165 170 175
 Ile Asp Tyr Asn Gly Asp Ala Leu Arg Glu Leu Val Leu Arg Tyr Ala
 180 185 190
 Gln Glu Trp Ala Leu Pro Ala Ala Phe Ile Ala Trp Leu Asn Asp Ala
 195 200 205
 Asn Thr Phe Cys Ser Thr Leu Val Asp Arg Ile Val Thr Gly Tyr Pro
 210 215 220
 Arg Asp Glu Val Ala Glu Leu Glu Ala Gly Leu Gly Tyr His Asp Ser
 225 230 235 240
 Phe Leu Asp Thr Ala Glu His Phe Tyr Leu Phe Val Ile Gln Gly Pro
 245 250 255
 Lys Ser Leu Ala Ala Glu Leu Arg Leu Asp Lys Tyr Pro Leu Asn Val
 260 265 270
 Leu Ile Val Asp Asp Ile Lys Pro Tyr Lys Glu Arg Lys Val Ala Ile
 275 280 285
 Leu Asn Gly Ala His Thr Ala Leu Val Pro Val Ala Phe Gln Ala Gly
 290 295 300
 Leu Asp Thr Val Gly Glu Ala Met Asn Asp Ala Glu Ile Cys Ala Phe
 305 310 315 320
 Val Glu Lys Ala Ile Tyr Glu Glu Ile Ile Pro Val Leu Asp Leu Pro
 325 330 335
 Arg Asp Glu Leu His Ser Phe Ala Ser Ala Val Thr Gly Arg Phe Arg
 340 345 350
 Asn Pro Tyr Ile Lys His Gln Leu Leu Ser Ile Ala Leu Asn Gly Met
 355 360 365
 Thr Lys Tyr Arg Thr Arg Ile Leu Pro Gln Leu Leu Ala Gly Gln Lys
 370 375 380
 Ala Thr Gly Lys Leu Pro Ala Arg Leu Thr Phe Ala Leu Ala Ala Leu
 385 390 395 400
 Ile Ala Phe Tyr Arg Ala Glu Arg Asn Gly Glu Arg Tyr Pro Val Gln
 405 410 415
 Asp Asp Ala His Trp Leu Glu Arg Tyr Gln Gln Leu Trp Thr Gln His
 420 425 430
 His Asp Lys Gln Val Thr Thr Arg Glu Leu Val Ser Ser Val Leu Ser
 435 440 445
 Val Ser Glu His Trp Glu Gln Asp Leu Thr Leu Val Asn Gly Leu Val
 450 455 460
 Lys His Val Ala Leu Asp Leu Asp Ala Ile Leu Ser Lys Gly Met Arg
 465 470 475 480
 Asp Ala Val Lys Pro Leu Cys
 485

<210> 9095

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 9095

Gly Gly Ser Arg Leu Ile Ala Ala Leu Phe Thr Phe Leu Lys Leu Ile
 1 5 10 15
 Met Ile Val Arg Leu Gln Gln His Trp Leu Gln Leu Ile Phe Val Trp
 20 25 30
 His Gly Ser Val Leu Pro Lys Ile Tyr Thr Arg Leu Leu Leu Asn Phe
 35 40 45

Leu Leu Ser Ile Ala Val Ile Val Met Leu Pro Trp Tyr Thr Ser Leu
 50 55 60
 Gly Ile Arg Phe Thr Val Ala Pro Phe Ser Ile Leu Gly Val Ala Ile
 65 70 75 80
 Ala Ile Phe Leu Gly Phe Arg Asn Asn Ala Cys Tyr Ser Arg Tyr Val
 85 90 95
 Glu Ala Arg Leu Leu Trp Gly Gln Leu Met Ile Ala Ala Arg Ser Leu
 100 105 110
 Phe Arg Glu Val Lys Asn Thr Leu Pro Asp Asp Lys His Leu Gly Glu
 115 120 125
 Phe Val Arg Leu Gln Ile Ala Phe Ala Asn Cys Leu Arg Met Thr Leu
 130 135 140
 Arg Arg Glu Thr Asn Ala Asp Gln Leu Ser Arg Tyr Leu Ala Pro Asp
 145 150 155 160
 Asp Leu Arg Lys Val Met Asp Ala Asn Ser Pro Ala Asn Arg Ile Leu
 165 170 175
 Leu Ile Met Gly Glu Trp Leu Ala Val Arg Arg Arg Ser Gly His Leu
 180 185 190
 Ser Asp Ile Leu Phe His Ser Leu Asn Asn Arg Leu Asn Asp Met Ser
 195 200 205
 Ile Val Leu Ala Gly Cys Glu Arg Ile Ala Asn Thr Pro Val Pro Phe
 210 215 220
 Ala Tyr Thr Leu Ile Leu His Arg Thr Val Tyr Leu Phe Cys Ile Met
 225 230 235 240
 Leu Pro Phe Ala Leu Val Val Asp Leu His Tyr Met Thr Pro Phe Val
 245 250 255
 Ser Ala Leu Ile Ser Tyr Thr Phe Ile Ser Leu Asp Thr Leu Ala Glu
 260 265 270
 Glu Leu Glu Asp Pro Phe Gly Thr Glu Asp Asn Asp Leu Pro Leu Asp
 275 280 285
 Ala Ile Cys Asn Met Met Glu Arg Asp Leu Leu Gln Met Asn Asp Glu
 290 295 300
 Glu Asn Ile Pro Glu Arg Leu Met Pro Asp Lys His Tyr Gln Leu Thr
 305 310 315 320

<210> 9096

<211> 432

<212> PRT

<213> Enterobacter cloacae

<400> 9096

Met Thr Leu Trp Pro Arg Thr Leu Leu Ala Arg Leu Leu Ile Ile Val
 1 5 10 15
 Leu Leu Gly Leu Leu Leu Ala Asn Ala Leu Ser Leu Thr Leu Val Met
 20 25 30
 Val Glu Arg Met His Ser Ala Arg Thr Val Met Leu Gly Asn Leu Glu
 35 40 45
 Asn Asp Val Ala Thr Ser Val Ala Ile Leu Asp Arg Leu Pro Gly Lys
 50 55 60
 Glu Arg Pro Glu Trp Leu Glu Arg Leu Ser Arg Gly Asn Tyr Arg Tyr
 65 70 75 80
 Ile Leu Gly Pro Gly Glu Ala Gly Ala Ala Pro Thr Asp Lys Arg Ser
 85 90 95
 Arg Asp Ala Ile Arg Thr Leu Lys Glu Thr Leu Ser Ala Gln Tyr Pro
 100 105 110
 Leu Gln Phe Thr Ala Val Pro Gly Pro Ile Ser His Ile Gln Ala His
 115 120 125
 Leu Thr Leu Arg Asp Gly Ala Pro Leu Thr Ile Asp Leu Ile Pro Arg
 130 135 140

Met	Pro	Pro	Val	Ala	Ser	Trp	Leu	Pro	Val	Val	Leu	Val	Leu	Gln	Leu
145					150					155					160
Leu	Leu	Val	Ala	Leu	Cys	Ser	Trp	Ile	Ala	Val	Arg	Gln	Val	Val	Arg
				165						170					175
Pro	Phe	Leu	Gln	Phe	Thr	Arg	Ala	Val	Asp	Ser	Leu	Asp	Pro	Ala	Ala
			180					185					190		
His	Ser	Pro	Met	Thr	Glu	Lys	Gly	Pro	Val	Glu	Val	Arg	Gln	Ala	Ala
		195					200					205			
His	Ala	Phe	Asn	Glu	Met	Gln	Ser	Arg	Ile	Gln	Thr	Tyr	Leu	Arg	Glu
	210					215					220				
Arg	Ala	Gln	Ile	Leu	Ala	Ser	Ile	Ser	His	Asp	Leu	Gln	Thr	Pro	Ile
225					230					235					240
Thr	Arg	Met	Lys	Leu	Arg	Ile	Glu	Met	Ala	Asp	Gln	Pro	Glu	Leu	Arg
				245					250						255
Asp	Lys	Leu	Leu	Ser	Asp	Leu	Asp	Asn	Met	Ser	Arg	Leu	Val	Arg	Glu
			260					265					270		
Gly	Ile	Ala	Tyr	Ala	Arg	Ser	Ser	Glu	Ser	Leu	Glu	Glu	Thr	Thr	Leu
		275					280					285			
Lys	Leu	Glu	Leu	Asn	Ala	Trp	Val	Asn	Ser	Ile	Ala	Ser	Asp	Tyr	Gln
	290					295					300				
Asp	Ile	Gly	Lys	Asn	Val	Gln	Phe	His	Ala	Arg	Asn	Ala	Arg	Leu	Pro
305					310					315					320
Ile	Val	Thr	Arg	Pro	Gln	Ala	Leu	Arg	Arg	Val	Met	Thr	Asn	Leu	Leu
				325					330						335
Asp	Asn	Ala	Leu	Lys	Phe	Gly	Asp	Ser	Ala	Val	Ile	Glu	Ile	Asp	Glu
		340						345					350		
Asp	Glu	Arg	Gln	Val	Ala	Ile	Arg	Ile	Met	Asp	Asn	Gly	Pro	Gly	Ile
		355					360					365			
Pro	Glu	Ala	Glu	Leu	Glu	Ala	Val	Leu	Gln	Pro	Phe	Tyr	Arg	Val	Glu
	370					375					380				
Thr	Ser	Arg	Asn	Arg	Glu	Thr	Gly	Gly	Thr	Gly	Leu	Gly	Leu	Ala	Ile
385					390					395					400
Ala	Ala	Gln	Leu	Thr	Ala	Gln	Leu	Asp	Gly	Lys	Leu	His	Ile	Ala	Asn
				405					410					415	
Arg	Ala	Glu	Gly	Gly	Leu	Ala	Val	Ser	Val	Thr	Leu	Pro	Arg	Gly	
			420					425					430		

<210> 9097

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 9097

Leu	Tyr	Ala	Cys	Val	Ser	Ala	Pro	Arg	Ala	Asp	Thr	Gln	Ala	Asp	Lys
1				5					10					15	
Ile	Gln	Leu	Phe	Ala	His	Gly	Leu	Asn	Thr	Phe	Val	Arg	Ser	Asn	Asn
			20					25					30		
Leu	Thr	Ala	Pro	Ser	Gln	Gln	Pro	Tyr	Arg	Glu	Val	Val	Met	Phe	Leu
		35					40					45			
Ile	Ile	Ala	Phe	Leu	Gly	Gly	Met	Ile	Ser	Leu	Leu	Ser	Pro	Cys	Thr
	50					55					60				
Leu	Pro	Val	Ile	Pro	Leu	Leu	Phe	Ala	Gly	Phe	Gln	Gly	Gln	Arg	Lys
65					70				75					80	
His	Ile	Leu	Ala	Leu	Leu	Ser	Gly	Met	Ile	Val	Met	Phe	Thr	Leu	Val
			85						90					95	
Ala	Met	Val	Val	Thr	Val	Ala	Ser	Glu	Trp	Ile	Ala	Asp	Ala	Thr	Val
			100					105					110		
Ile	Gly	Arg	Trp	Ile	Ala	Leu	Leu	Ile	Leu	Ser	Ile	Ala	Ala	Leu	Ala
		115					120					125			
Leu	Phe	Phe	Pro	Gln	Phe	Ala	Gln	Arg	Ile	Ala	Arg	Pro	Ala	Val	Ser
	130					135						140			

Ala Gly Asn Val Leu Asn Thr His Ser Val Gln Arg Arg Gly Leu Val
 145 150 155 160
 Ser Ala Phe Leu Ala Gly Leu Ala Val Gly Leu Leu Trp Ser Pro Cys
 165 170 175
 Ala Gly Pro Ile Leu Gly Ala Ile Phe Ser Ile Asn Ile Ala Gly His
 180 185 190
 Ser Ala Ile Ala Thr Gly Ala Leu Leu Ala Ala Tyr Gly Ser Gly Cys
 195 200 205
 Ala Leu Met Leu Gly Leu Leu Val Ala Gly Gly Arg Lys Leu Ile Thr
 210 215 220
 Pro Leu Arg Val Lys Ser Ala Leu Met Ala Arg Leu Arg Gln Gly Ala
 225 230 235 240
 Gly Val Met Met Leu Ala Ala Val Ala Phe Asn Ala Ser Gly Met Thr
 245 250 255
 Ser Ala Leu Lys Gly Ala Asn Gly Ile Ala Asp Gln Leu Glu Asn Ala
 260 265 270
 Leu Leu Ser Leu Ala Gln Pro Ser Ser Thr Gln Val Lys Leu Gln Pro
 275 280 285
 Val Ala Asp Ala Thr Pro Ser Ser Gln Leu Pro Ser Leu Ser Gly Gly
 290 295 300
 Thr Gly Trp Val Asn Gly Asp Pro Val Thr Ser Glu Ala Leu Arg Gly
 305 310 315 320
 Lys Val Val Leu Ile Asp Phe Trp Thr Trp Asp Cys Ile Asn Cys Gln
 325 330 335
 His Thr Leu Pro His Val Arg Asp Trp Ala Lys Lys Tyr Glu Ser Gln
 340 345 350
 Gly Leu Val Val Ile Gly Val His Thr Pro Glu Tyr Pro Trp Glu Lys
 355 360 365
 Pro Leu Ser Ser Val Lys Asn Ala Val Asn Lys Trp Gln Leu Pro Tyr
 370 375 380
 Arg Val Val Thr Asp Asn Asn Tyr Lys Ile Trp Ser Ala Phe Gly Asn
 385 390 395 400
 Gln Tyr Trp Pro Ala His Tyr Tyr Phe Asp Ala Lys Gly Gln Leu Arg
 405 410 415
 Tyr Thr Ala Phe Gly Glu Gly Asn Tyr Asp Lys Gln Glu Ala Val Ile
 420 425 430
 Gln Gln Leu Lys Glu Ala Arg Ser
 435 440

<210> 9098

<211> 658

<212> PRT

<213> Enterobacter cloacae

<400> 9098

Arg Arg Ser Met Arg Leu His Ser His His Leu Glu Leu Leu Ser Pro
 1 5 10 15
 Ala Arg Asp Ala Ala Ile Ala Arg Glu Ala Ile Leu His Gly Ala Asp
 20 25 30
 Ala Val Tyr Ile Gly Gly Pro Gly Phe Gly Ala Arg His Asn Ala Ser
 35 40 45
 Asn Ser Leu Arg Asp Ile Ala Glu Leu Val Pro Phe Ala His Arg Phe
 50 55 60
 Gly Ala Lys Val Phe Val Thr Leu Asn Thr Ile Leu His Asp Asp Glu
 65 70 75 80
 Leu Glu Pro Ala Gln Arg Leu Ile Thr Asp Leu Tyr Gln Thr Gly Val
 85 90 95
 Asp Ala Leu Ile Val Gln Asp Met Gly Val Leu Glu Leu Asp Ile Pro
 100 105 110
 Pro Ile Glu Leu His Ala Ser Thr Gln Cys Asp Ile Arg Thr Val Glu
 115 120 125

Lys Ala Lys Phe Leu Ser Asp Val Gly Phe Thr Gln Ile Val Leu Ala
 130 135 140
 Arg Glu Leu Asn Leu Asn Gln Ile Arg Asp Ile His Gln Ala Thr Asp
 145 150 155 160
 Ala Thr Ile Glu Phe Phe Ile His Gly Ala Leu Cys Val Ala Tyr Ser
 165 170 175
 Gly Gln Cys Asn Ile Ser His Ala Gln Thr Gly Arg Ser Ala Asn Arg
 180 185 190
 Gly Asp Cys Ser Gln Ala Cys Arg Leu Pro Tyr Thr Leu Lys Asp Asp
 195 200 205
 Gln Gly Arg Val Val Ala Phe Glu Lys His Leu Leu Ser Met Lys Asp
 210 215 220
 Asn Asp Gln Thr Ala Asn Leu Gly Ala Leu Ile Asp Ala Gly Val Arg
 225 230 235 240
 Ser Phe Lys Ile Glu Gly Arg Tyr Lys Asp Met Ser Tyr Val Lys Asn
 245 250 255
 Ile Thr Ala His Tyr Arg Gln Met Leu Asp Ala Ile Ile Asp Asp Arg
 260 265 270
 Gly Asp Leu Ala Arg Val Ser Ala Gly Arg Thr Glu His Phe Phe Ile
 275 280 285
 Pro Ser Thr Asp Lys Thr Phe His Arg Gly Ser Thr Asp Tyr Phe Val
 290 295 300
 Asn Ala Arg Lys Gly Asp Ile Gly Ala Phe Asp Ser Pro Lys Phe Ile
 305 310 315 320
 Gly Leu Pro Val Gly Glu Val Leu Lys Val Ala Lys Asp His Leu Asp
 325 330 335
 Val Gln Val Thr Glu Pro Leu Ala Asn Gly Asp Gly Leu Asn Val Met
 340 345 350
 Ile Lys Arg Glu Val Val Gly Phe Arg Ala Asn Thr Val Glu Lys Thr
 355 360 365
 Gly Glu Asn Arg Tyr Arg Val Trp Pro Asn Glu Met Pro Ala Asp Leu
 370 375 380
 Tyr Lys Ala Arg Pro Asn Ala Ala Leu Asn Arg Asn Leu Asp His Asn
 385 390 395 400
 Trp Gln Gln Ala Leu Leu Lys Thr Ser Ser Glu Arg Arg Ile Ala Val
 405 410 415
 Asp Ile Ala Leu Gly Gly Trp Glu Glu Gln Leu Ile Leu Thr Met Thr
 420 425 430
 Cys Glu Asp Gly Ile Ser Val Thr His Thr Leu Asp Gly Leu Phe Glu
 435 440 445
 Val Ala Asn Asn Ala Glu Lys Ala Leu Asn Asn Leu Lys Asp Gly Val
 450 455 460
 Ala Lys Leu Gly Gln Thr Ile Tyr Tyr Ala Arg Asn Ile Glu Val Asn
 465 470 475 480
 Leu Pro Asp Ala Leu Phe Val Pro Asn Ser Leu Leu Asn Gln Phe Arg
 485 490 495
 Arg Glu Thr Ala Glu Met Leu Asp Glu Val Arg Leu Ala Asn Tyr Ser
 500 505 510
 Arg Gly Ser Arg Lys Ala Glu Ala Val Pro Ala Pro Val Tyr Pro Asp
 515 520 525
 Thr His Leu Ser Phe Leu Ala Asn Val Tyr Asn His Lys Ala Arg Ala
 530 535 540
 Phe Tyr His Arg His Gly Val Gln Leu Ile Asp Ala Ala Tyr Glu Ala
 545 550 555 560
 His Glu Glu Lys Gly Asp Val Pro Val Met Ile Thr Lys His Cys Leu
 565 570 575
 Arg Phe Ala Phe Asn Leu Cys Pro Lys Gln Ala Lys Gly Asn Ile Lys
 580 585 590
 Ser Trp Lys Ala Thr Pro Met Gln Leu Val Asn Gly Asp Glu Val Leu
 595 600 605
 Thr Leu Lys Phe Asp Cys Arg Pro Cys Glu Met His Val Ile Gly Lys

610 615 620
 Met Lys Asn His Ile Phe Lys Met Pro Pro Pro Gly Ser Ile Val Ala
 625 630 635 640
 Ser Val Ser Pro Asp Asp Leu Met Lys Thr Leu Pro Lys Arg Lys Gly
 645 650 655
 Ser

<210> 9099
 <211> 140
 <212> PRT
 <213> Enterobacter cloacae

<400> 9099
 Gly Arg Phe Met Ser Tyr Val Thr Glu Phe Pro Ala Ala Glu Pro Gln
 1 5 10 15
 Glu Ala Val Gly His Phe Leu Arg Arg Leu Ser Val Glu Thr Asp Cys
 20 25 30
 Ala Asp Val His His Ala Val Ser Ser Gly Glu Gln Asp Phe Val Leu
 35 40 45
 Leu His Val Val Gly Lys Pro Glu His Phe Ala Arg Arg His Leu Pro
 50 55 60
 Gly Ala Leu His Leu Pro Trp Ser Gln Ile Thr Ala Glu Arg Met Thr
 65 70 75 80
 Ala Trp Pro Glu Gly Thr Leu Phe Val Val Tyr Cys Ala Gly Pro His
 85 90 95
 Cys Asn Gly Ala Asp Arg Ala Ala Leu Lys Leu Ala Arg Leu Gly Leu
 100 105 110
 Pro Val Lys Ile Met Leu Gly Gly Met Thr Gly Trp Glu Asp Glu Arg
 115 120 125
 Phe Ala Phe Ala Gly Ser Ser Ser Pro Ala Leu
 130 135 140

<210> 9100
 <211> 376
 <212> PRT
 <213> Enterobacter cloacae

<400> 9100
 Arg Arg Gln Thr Glu Glu Ile Ser Met Gln Arg His His Ala Pro Tyr
 1 5 10 15
 Arg Ala Asp Val Val Gly Ser Phe Leu Arg Pro Asp Ser Val Lys Gln
 20 25 30
 Ala Arg Leu Gln Phe Ala Ser Gly Glu Ile Asp Ala Gly Gln Leu Arg
 35 40 45
 Ala Val Glu Asp Glu Ala Ile Arg His Val Val Glu Gln Gln Cys Ala
 50 55 60
 Cys Gly Leu His Val Val Thr Asp Gly Glu Phe Arg Arg Ala Trp Trp
 65 70 75 80
 His Phe Asp Phe Phe Asp Gly Leu Gln Gly Val Glu Arg Tyr Asp Ser
 85 90 95
 Gln Gln Gly Ile Gln Phe Asn Gly Val Gln Thr Lys Ala His Gly Val
 100 105 110
 Arg Val Thr Gly Lys Leu Gly Phe Gly Asp His Pro Met Leu Glu Asp
 115 120 125
 Phe Arg Tyr Leu Lys Ser Ile Ser Gly Asn Ala Gln Pro Lys Met Thr
 130 135 140
 Ile Pro Ser Pro Ser Val Leu His Phe Arg Gly Gly Arg Lys Asp Ile
 145 150 155 160
 Asp Ala Thr Val Tyr Pro Asp Leu Lys Asp Tyr Phe Asp Asp Leu Ala
 165 170 175

Thr Thr Trp Arg Asp Ala Ile Arg Ala Phe Tyr Asp Ala Gly Cys Arg
 180 185 190
 Tyr Leu Gln Leu Asp Asp Thr Val Trp Ala Tyr Leu Cys Ser Glu Asp
 195 200 205
 Gln Arg Arg Gln Ile Arg Glu Arg Gly Asp Asp Ala Asp Glu Leu Ala
 210 215 220
 Arg Thr Tyr Ala Arg Val Leu Asn Lys Ala Leu Glu Gly Lys Pro Asp
 225 230 235 240
 Asp Leu Thr Ile Gly Leu His Val Cys Arg Gly Asn Phe Arg Ser Thr
 245 250 255
 Trp Ile Ser Glu Gly Gly Tyr Glu Pro Val Ala Glu Val Leu Phe Gly
 260 265 270
 Thr Val Asn Val Asp Ala Phe Phe Leu Glu Tyr Asp Asn Asp Arg Ser
 275 280 285
 Gly Asp Phe Ala Pro Leu Arg Phe Val Arg Pro Gly Lys Gln Gln Val
 290 295 300
 Val Leu Gly Leu Ile Thr Thr Lys His Gly Glu Leu Glu Asn Pro Glu
 305 310 315 320
 Gly Val Lys Ala Arg Leu Glu Glu Ala Ala Arg Tyr Val Ala Lys Glu
 325 330 335
 Gln Ile Cys Leu Ser Pro Gln Cys Gly Phe Ala Ser Thr Glu Glu Gly
 340 345 350
 Asn Ser Leu Ser Glu Ala Gln Gln Trp Asp Lys Ile Arg Leu Val Thr
 355 360 365
 Gln Ile Ala Ser Asp Val Trp
 370 375

<210> 9101

<211> 538

<212> PRT

<213> *Enterobacter cloacae*

<400> 9101

Lys Pro Pro Ala Thr Lys Pro Pro Pro Gly Arg Asp Val Met Asn Ala
 1 5 10 15
 Ile Arg Met Met Ile Ala Ile Val Trp Leu Thr Gly Leu Leu Pro Gly
 20 25 30
 Met Ala Gln Ala Ser Asp Ala Asp Asp Phe Val Ala Ala Ser Arg Ser
 35 40 45
 Gln Gln Thr Ala Met Leu Thr Arg Trp Ala Ala Thr Pro Glu Pro Ala
 50 55 60
 Arg Leu Pro Leu Leu Lys Ala Leu Gln Gln Glu Asn Leu Tyr Thr Asp
 65 70 75 80
 Ser Gln Lys Lys Ala Phe Thr Arg Ile Asp Gly Glu Met Val Ala Leu
 85 90 95
 Gly Ala Ala Lys Ser Ala Glu Gly Thr Thr Lys Ala Val Arg Leu Thr
 100 105 110
 Asn Arg Leu Arg Val Leu Thr Val Thr Ala Leu Ala Thr His Gln Leu
 115 120 125
 Val Ser Asp Ser Val Thr Glu Arg Arg His Ala Ala Arg Gln Leu Gln
 130 135 140
 Arg Asp Ala Gln Pro Asp Met Leu Gly Phe Leu Gln Gln Arg Ala Asn
 145 150 155 160
 Arg Glu Thr Asp Asp Ile Thr Arg Gln Ser Leu Arg Leu Ala Leu Ala
 165 170 175
 Asn Leu Gln Leu Ala Ser Pro Gln Ala Glu Thr Arg Leu Asn Ala Val
 180 185 190
 Glu Leu Leu Gly Gln Ser Asp Asp Pro Asp Val Gln Ala Thr Leu Thr
 195 200 205
 Pro Phe Thr Arg Ala Gln Thr Glu Pro Asp Ala Arg Val Arg Ala Ala
 210 215 220

Ala Ala Glu Ser Leu Asp Arg Ile Gln His Arg Leu Met Trp Gly Glu
 225 230 235 240
 Leu Leu Gly Gln Ala Phe Met Gly Leu Ser Leu Gly Ser Val Leu Leu
 245 250 255
 Leu Ala Ala Leu Gly Leu Ala Ile Thr Tyr Gly Leu Leu Gly Val Ile
 260 265 270
 Asn Met Ala His Gly Glu Met Leu Met Leu Gly Ala Tyr Ala Thr Trp
 275 280 285
 Met Val Gln Gln Val Met Ala Gln Trp Met Pro Gln Trp Leu Ala Leu
 290 295 300
 Tyr Pro Val Val Ala Leu Pro Val Ala Phe Cys Leu Thr Ala Gly Ile
 305 310 315 320
 Gly Met Val Leu Glu Arg Thr Val Ile Arg His Leu Tyr Gly Arg Pro
 325 330 335
 Leu Glu Thr Leu Leu Ala Thr Trp Gly Ile Ser Leu Met Leu Ile Gln
 340 345 350
 Leu Val Arg Met Thr Phe Gly Ala Gln Asn Leu Glu Val Ala Asn Pro
 355 360 365
 Ala Trp Leu Ser Gly Gly Val Gln Val Phe Ala Asn Leu Thr Leu Pro
 370 375 380
 Trp Asn Arg Ile Val Val Leu Gly Phe Val Leu Met Val Leu Phe Phe
 385 390 395 400
 Thr Trp Leu Ile Leu Asn Lys Thr Arg Leu Gly Leu Asn Val Arg Ala
 405 410 415
 Val Thr Gln Asn Arg Ser Met Ala Ala Cys Cys Gly Val Pro Thr Gly
 420 425 430
 Arg Val Asp Met Leu Ala Phe Gly Leu Gly Ser Gly Ile Ala Gly Leu
 435 440 445
 Gly Gly Val Ala Leu Ser Gln Leu Gly Asn Val Gly Pro Glu Leu Gly
 450 455 460
 Gln Gly Tyr Ile Ile Asp Ser Phe Leu Val Val Val Leu Gly Gly Val
 465 470 475 480
 Gly Gln Leu Ala Gly Ser Val Ala Ala Phe Gly Leu Gly Ile Phe
 485 490 495
 Asn Lys Ile Leu Glu Pro Gln Met Gly Ala Val Leu Gly Lys Ile Leu
 500 505 510
 Ile Leu Val Ala Ile Ile Leu Phe Ile Gln Lys Arg Pro Gln Gly Leu
 515 520 525
 Phe Ala Leu Lys Gly Arg Val Thr Asp
 530 535

<210> 9102

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 9102

Tyr Asn Ile Pro Val Leu Ile Lys Arg Asn Glu Asp Phe Ala Val Ala
 1 5 10 15
 Ala Gln Pro Gly Lys Ile Ala Leu Thr Leu Gly Thr Leu Leu Val Ser
 20 25 30
 Gly Ser Leu Phe Ala His Ser His Gly His Gln Met Thr Glu Ala Glu
 35 40 45
 Gln Lys Ala Ala Asn Gly Val Phe Glu Asp Lys Asp Val Arg Asp Arg
 50 55 60
 Lys Leu Ser Asp Trp Asp Gly Thr Trp Gln Ser Val Tyr Pro Phe Leu
 65 70 75 80
 Leu Asp Gly Ser Leu Asp Pro Val Phe Glu Lys Lys Ala Gln Lys Gly
 85 90 95
 Glu Lys Ser Ala Ala Glu Val Lys Ala Tyr Tyr Arg Lys Gly Tyr Ala
 100 105 110

Thr Asp Val Asp Ala Ile Gly Ile Glu Asn Asn Val Met Glu Phe His
 115 120 125
 Arg Gly Lys Thr Val Ser Ser Cys Arg Tyr Asp Tyr Ser Gly Tyr Lys
 130 135 140
 Ile Leu Thr Tyr Ala Ser Gly Lys Lys Gly Val Arg Tyr Leu Phe Glu
 145 150 155 160
 Cys Lys Asp Asn Ala Ser Glu Ala Pro Lys Phe Val Gln Phe Ser Asp
 165 170 175
 His Ile Ile Gly Pro Lys Ala Ser Ser His Phe His Ile Phe Met Gly
 180 185 190
 Asn Thr Ser His Glu Ala Leu Leu Lys Glu Met Asp Asn Trp Pro Thr
 195 200 205
 Tyr Tyr Pro Asn Glu Met Tyr Lys Glu Gln Val Val Glu Glu Met Leu
 210 215 220
 His His
 225

<210> 9103

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 9103

Glu Glu Pro Thr Met Gln Glu Ile Asp Phe Tyr Leu Val Asp Ala Phe
 1 5 10 15
 Ser Asp Arg Ala Phe Gly Gly Asn Ala Ala Ala Val Cys Pro Leu Glu
 20 25 30
 Ala Trp Leu Pro Asp Glu Thr Leu Leu Lys Met Ala Lys Gln His Asn
 35 40 45
 Gln Ser Glu Thr Ala Phe Phe Val Arg Thr Asp Asn Gly Phe Glu Leu
 50 55 60
 Arg Trp Phe Thr Thr Gln Asp Glu Ile Asn Leu Cys Gly His Ala Thr
 65 70 75 80
 Leu Ala Ala Ser His Val Ile Phe Glu Tyr Leu Asp Tyr Pro His Thr
 85 90 95
 Glu Ile Thr Phe Thr Thr Arg Phe Val Gly Glu Leu Thr Val Gln Arg
 100 105 110
 Ser Gly Asp Trp Leu Thr Leu Asn Phe Pro Ala Trp Ser Thr Glu Val
 115 120 125
 Val Asp Thr Pro Pro Pro Val Leu Phe Ser Ala Leu Gly Ile Asn Ala
 130 135 140
 Ala Asn Glu Val Arg Val Gly Arg Asp Tyr Met Val Val Leu Asp Ser
 145 150 155 160
 Gln Arg Gln Val Glu Ala Leu Thr Pro Asp Ile Thr Ala Met Leu Pro
 165 170 175
 Leu Gly Lys Met Val Cys Val Thr Ala Pro Gly Asp Glu Tyr Asp Phe
 180 185 190
 Val Ser Arg Phe Phe Cys Pro Gly Glu Gly Val Pro Glu Asp Pro Val
 195 200 205
 Thr Gly Ser Ala His Ser Met Leu Ile Pro Tyr Trp Ser Glu Lys Leu
 210 215 220
 Gly Lys Thr Gln Met Ser Ala Arg Gln Val Ser Leu Arg Gly Gly Asp
 225 230 235 240
 Leu Arg Cys Glu Leu Lys Gly Asp Arg Val Leu Ile Gly Gly Gln Ala
 245 250 255
 Thr Leu Tyr Met Lys Gly Lys Ile Phe Leu Arg Leu Gln Asp Tyr Val
 260 265 270
 Gln Leu
 275

<210> 9104

<211> 551
 <212> PRT
 <213> Enterobacter cloacae

<400> 9104

Trp	Phe	Cys	His	Phe	Arg	Phe	Val	Asp	Ser	Leu	Ala	Pro	Asn	Val	Leu
1				5					10					15	
Leu	Gln	Lys	Lys	Ile	Met	Asn	Leu	Thr	Gln	Ile	Phe	Arg	Arg	Leu	Ala
			20					25					30		
Pro	Arg	Phe	Ile	Pro	Arg	Gln	Phe	Gly	Leu	Leu	Thr	Gly	Ile	Phe	Cys
		35					40					45			
Ile	Ile	Gly	Leu	Phe	Ser	Ala	Leu	Gln	Leu	Ser	Ser	Ser	Phe	Leu	Leu
	50					55					60				
Thr	Ala	Ser	Leu	Asn	Gln	Ala	Gln	Arg	Asn	Glu	Gln	Arg	Asn	Gln	Leu
65					70					75					80
Ala	Trp	Gln	Gln	Gln	Ser	Arg	Leu	Asp	Gln	Ala	Arg	Ile	Ser	Leu	Leu
				85					90					95	
Ala	Ala	Ser	Asp	Leu	Leu	Asn	Arg	Ser	Gly	Val	Tyr	Phe	Met	Gln	Asp
			100					105					110		
Lys	Glu	Thr	Gly	Ser	Glu	Gly	Ser	Trp	His	Ser	Leu	Met	Asp	Glu	Ala
		115					120					125			
Gln	Lys	Ser	Leu	Ala	Ala	Ser	Gln	Gln	Ala	Trp	Gln	Ala	Trp	Leu	Ala
		130				135					140				
Leu	Asn	Pro	Pro	Gln	Asp	Glu	Gly	Leu	Val	Asn	Ser	Tyr	Gln	Leu	Phe
145					150					155					160
Phe	Gly	Ala	Ile	Ser	Glu	Gln	Ala	Glu	Gly	Leu	Val	Lys	Thr	Asn	Ser
				165					170					175	
Ile	Asp	Leu	Phe	Phe	Ala	Val	Pro	Ala	Gln	Ala	Phe	Gln	Thr	Asp	Phe
			180					185					190		
Asn	Asp	Asn	Phe	Ala	Arg	Tyr	Gln	Gln	Arg	Ser	Glu	Lys	Gln	Ala	Ile
		195					200					205			
Gln	Gly	Arg	Gln	Ser	Leu	Met	Glu	Gln	Leu	Ser	Gly	Leu	Gln	Arg	Leu
		210				215					220				
Phe	Leu	Phe	Ala	Pro	Leu	Val	Leu	Leu	Ala	Ile	Ala	Ile	Ala	Val	Trp
225					230					235					240
Phe	Gly	Met	Ala	Lys	Trp	Val	Ile	Ser	Pro	Leu	Arg	Arg	Leu	Ile	Ile
				245					250					255	
His	Ile	Asn	Gln	Leu	Ala	Ala	Gly	Asp	Leu	Ser	Gly	Thr	Pro	Pro	Asp
			260					265					270		
Val	Val	Arg	Phe	Asn	Arg	Glu	Ile	Ser	Gln	Leu	Cys	Gly	Ser	Ile	Thr
		275					280					285			
Ala	Met	Gln	Leu	Gly	Leu	Gln	Gln	Leu	Val	Thr	Gln	Val	Ser	Glu	Ala
		290				295					300				
Thr	Thr	Ala	Met	Val	Glu	Asn	Ile	Gly	Ser	Leu	Ala	Gln	Gly	Asn	Gln
305					310					315					320
Lys	Leu	Tyr	Gln	Gln	Ser	Thr	Arg	Gln	Ala	Lys	Glu	Leu	Glu	Glu	Val
				325					330					335	
Thr	Ala	His	Ile	Ala	Asp	Leu	Glu	Thr	His	Val	Glu	Gly	Asn	Thr	Gly
			340					345					350		
Tyr	Ala	Lys	Leu	Ala	Arg	Ser	Arg	Ala	Asp	Glu	Ala	Arg	Gln	Ala	Ala
		355					360					365			
Val	Gly	Gly	Glu	Gln	Met	Met	Thr	Ala	Val	Asn	Gly	Ser	Met	Gln	Thr
		370				375					380				
Ile	Val	Asp	Arg	Ser	Ser	Glu	Met	Arg	Gly	Ile	Val	Ala	Met	Ile	Asp
385					390					395					400
Ser	Val	Ala	Phe	Gln	Thr	Asn	Ile	Leu	Ala	Leu	Asn	Ala	Ala	Ile	Glu
				405					410					415	
Ala	Ala	His	Ala	Gly	Glu	Gln	Gly	Arg	Gly	Phe	Ala	Val	Val	Ala	Arg
			420					425					430		
Glu	Val	Gly	Leu	Leu	Ala	Arg	Lys	Ser	Ser	His	Ser	Thr	Gln	Thr	Ile
		435					440					445			

Gln Ala Leu Ile Asn His Ser Leu Gln Gly Ile Glu Glu Gly Ser Gln
 450 455 460
 Val Val Asn Arg Leu Glu Asn Leu Gln Gln Val Thr Gly Leu Val
 465 470 475 480
 Ala Asn Leu Ser Ser Leu Leu Asn Asp Ile Ser Leu Ala Thr Leu Asn
 485 490 495
 Gln Gly Asp Ser Ile His Gln Met Thr Arg Gln Leu Gln Ala Leu Asn
 500 505 510
 Gln Val Ser Arg Gln Thr Asp Val Leu Val Ser Glu Ala Ser Asn Ala
 515 520 525
 Ser Glu Arg Leu His Gln Gln Ser Asp Leu Leu Leu Gln Ala Val Ser
 530 535 540
 Arg Phe Arg Leu Pro Ala
 545 550

<210> 9105

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 9105

Gly Arg Ala Met Asn Ser Pro Met Leu Ile Lys Pro Leu Ser Arg Gln
 1 5 10 15
 Asp Ile Leu Thr His Ile Asp Ala Leu Asn Asp Ile Leu Val Asn Cys
 20 25 30
 Val Asn Gly Gly Ala Ser Val Ser Phe Met Leu Pro Phe Ser Ala Ala
 35 40 45
 Lys Ala Gln Thr Phe Trp Leu Gly Val Ala Asp Ser Val Gly Arg Asp
 50 55 60
 Glu Arg Thr Val Leu Gly Cys Phe Asp Ala Glu Gln Gly Leu Val Gly
 65 70 75 80
 Thr Val Gln Leu Ile Thr Asp Gln Pro Glu Asn Gln Pro His Arg Ala
 85 90 95
 Asp Val Ala Lys Leu Leu Val His Glu Lys Ala Arg Arg Lys Gly Ala
 100 105 110
 Ala Met Ala Leu Met Glu Ser Leu Glu Ala Val Ala Arg Glu Lys Ala
 115 120 125
 Leu Thr Val Leu Val Leu Asp Thr Ser Thr Gly Ser Gly Ala Glu Thr
 130 135 140
 Phe Tyr Gln Arg Ala Gly Trp Gln Lys Ala Gly Glu Ile Ser Arg Tyr
 145 150 155 160
 Ala Leu Met Pro Asn Gly Asp Met Thr Ala Thr Ser Met Phe Tyr Lys
 165 170 175
 Phe Leu

<210> 9106

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 9106

Cys Glu Glu His Met Thr Leu Ile Val Arg Pro Leu Gln Thr Glu Asp
 1 5 10 15
 Tyr Pro Gln Trp Arg Pro Leu Trp Asp Gly Tyr Ile His Phe Tyr Glu
 20 25 30
 Cys Tyr Leu Asp Glu Ser Val Thr Ala Ala Thr Trp Asp Arg Ala Leu
 35 40 45
 Thr Asp Ser Ser Pro Leu Phe Cys Arg Val Val Glu Lys Asp Gly Ser
 50 55 60
 Val Ile Gly Phe Ala Met Cys Val Leu His Glu Gly Thr Trp Ser Thr

65					70					75				80
Ala	Pro	Val	Cys	Tyr	Leu	Glu	Asp	Leu	Phe	Val	Asp	Ala	Ala	Glu
				85					90					95
Gly	Ala	Gly	Ala	Gly	Lys	Ala	Leu	Ile	Asp	Ala	Leu	Ile	Asp	Glu
			100					105					110	Gly
Lys	Arg	Glu	Gly	Trp	Ser	Lys	Leu	Tyr	Trp	Val	Thr	Arg	Met	Asn
		115					120					125		Asn
Pro	Ala	Arg	Lys	Leu	Tyr	Asp	His	Tyr	Gly	Glu	Ala	Asp	Asp	Tyr
	130					135					140			Val
Arg	Tyr	Arg	Ile	Ser	Leu									
145					150									

<210> 9107

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 9107

Ala	Leu	Ile	Cys	Ala	Ile	Phe	Asn	Pro	Leu	Pro	Leu	Asn	Gln	Glu	Pro
1			5						10					15	
Ala	Val	Glu	His	Ile	Asp	His	Ile	Leu	Val	Val	Asp	Asp	Asp	Arg	Asp
		20						25					30		
Ile	Arg	Glu	Leu	Ile	Val	Asp	Tyr	Leu	Val	Lys	Ser	Gly	Tyr	His	Ala
		35					40					45			
Ser	Gly	Ala	Ala	Asn	Gly	Lys	Glu	Met	Arg	Val	Val	Leu	Asp	Lys	Gln
	50				55						60				
His	Ile	Asp	Leu	Val	Val	Leu	Asp	Val	Met	Met	Pro	Gly	Asp	Asp	Gly
65				70					75					80	
Leu	Thr	Leu	Cys	Arg	Gln	Leu	Arg	Ser	Ser	Arg	His	Lys	Asp	Leu	Pro
			85					90						95	
Ile	Leu	Met	Leu	Thr	Ala	Arg	Asn	Glu	Asp	Thr	Asp	Arg	Ile	Leu	Gly
		100						105					110		
Leu	Glu	Met	Gly	Ala	Asp	Asp	Tyr	Val	Val	Lys	Pro	Phe	Val	Ala	Arg
	115						120					125			
Glu	Leu	Leu	Ala	Arg	Ile	Lys	Ala	Ile	Leu	Arg	Arg	Phe	Arg	Thr	Met
	130					135					140				
Pro	Pro	Asn	Leu	Gln	Val	Thr	Glu	Ala	Gly	Arg	Leu	Val	Val	Phe	Gly
145				150					155						160
Glu	Trp	Gln	Leu	Asp	Thr	Val	Ala	Arg	His	Leu	Ile	Asp	Asn	Glu	Gly
			165						170					175	
Met	Val	Val	Ala	Leu	Ser	Gly	Ala	Glu	Tyr	Arg	Leu	Leu	Arg	Val	Phe
		180						185					190		
Leu	Asp	His	Pro	Gln	Arg	Val	Leu	Thr	Arg	Asp	Gln	Leu	Leu	Asn	Leu
	195						200					205			
Thr	Gln	Gly	Arg	Asp	Ala	Glu	Leu	Phe	Glu	Arg	Ser	Ile	Asp	Leu	Leu
	210					215					220				
Val	Ser	Arg	Val	Arg	Gln	Arg	Leu	Asn	Glu	Asp	Ala	Arg	Thr	Pro	Ala
225				230						235					240
Tyr	Ile	Lys	Thr	Val	Arg	Ser	Glu	Gly	Tyr	Val	Phe	Thr	Met	Pro	Val
			245						250					255	
Thr	Ile	Val	Glu	Ala	Asn	Glu									
			260												

<210> 9108

<211> 434

<212> PRT

<213> Enterobacter cloacae

<400> 9108

Gly	Gln	Ala	Met	Lys	Ala	Ile	Ser	Ile	Leu	Ala	Cys	Gly	Ala	Asp	Pro
1				5					10					15	

Thr Ala Gln Arg Met Ser Thr Ser Ala Ile Gln Gln Ala Ile Asn Ser
 20 25 30
 Ala Gln Gln Asn Asp Val Ile Val Ile Pro Gln Gly Arg Phe Leu Thr
 35 40 45
 Gly Ala Leu Phe Leu Lys Ser Gly Val Ser Leu Arg Leu Asp Ala Gly
 50 55 60
 Ala Gln Leu Val Gly Ser Gln Asp Leu Ala Asp Tyr Pro Leu Ile Asn
 65 70 75 80
 Thr Arg Val Ala Gly Ile Asp Met Arg Trp Pro Ala Gly Ile Ile Asn
 85 90 95
 Ile Ile Asp Cys Glu Asn Val Ser Ile Thr Gly Thr Gly Thr Ile Asp
 100 105 110
 Gly Gln Gly Val Ile Trp Trp Gln Arg Phe Trp Gly Asp Asp Glu Arg
 115 120 125
 Ser Gly Met Val Gly Asp Tyr Ser Ala Arg Gly Leu Arg Trp Val Val
 130 135 140
 Asp Tyr Asp Cys Gln Arg Pro Arg Asn Ile Leu Val Phe Glu Ser Gln
 145 150 155 160
 Asn Ile Leu Leu Arg Asp Phe Thr Ser Arg Glu Ser Gly Phe Trp Asn
 165 170 175
 Ile His Leu Cys Tyr Ser Arg Arg Ile Ala Val Glu Gly Val Gln Ile
 180 185 190
 Ser Asn Ser Ala Gly Pro Ser Thr Asp Gly Ile Asp Val Asp Ser Cys
 195 200 205
 Glu Gln Val Arg Ile Glu Arg Cys Ile Val Ser Cys Asn Asp Asp Asn
 210 215 220
 Ile Cys Ile Lys Ser Gly Arg Gly Arg Glu Ala Ala Gln Lys Ala Arg
 225 230 235 240
 Thr Ala Arg Asp Ile Val Ile Arg Gly Cys Thr Leu Asn Lys Gly Ser
 245 250 255
 Gly Ile Thr Leu Gly Ser Glu Thr Ser Gly Gly Ile Glu Arg Val Leu
 260 265 270
 Ile Glu Asp Asn Ala Phe Asn Gly Thr Gly Val Gly Phe Arg Ile Lys
 275 280 285
 Ser Ala Arg Asn Arg Gly Gly Phe Ile Arg Asp Ile Thr Val Gln Asn
 290 295 300
 Leu Arg Leu Thr Asp Val Arg Phe Pro Val Leu Ile Gln Leu Asn Trp
 305 310 315 320
 Phe Pro Gln Tyr Ser Tyr Gly Asp Gln Ser Asn Leu Ser Asp Lys Pro
 325 330 335
 Glu His Trp Arg Lys Leu Ala Glu Gly Val Glu Gly Glu Ala Gly Leu
 340 345 350
 Thr Glu Val Ser Gly Leu Thr Ile Lys Asn Met Thr Ala Arg Arg Ser
 355 360 365
 Asp Lys Lys Tyr Phe Ser Arg Ala Phe Phe Ile Glu Gly Tyr Pro Glu
 370 375 380
 Arg Pro Val Ala Gly Leu Thr Leu Glu Gly Ile Phe Ile Asp Ala Thr
 385 390 395 400
 Glu Phe Gly Lys Ile Ser Gly Val Asp Gly Leu Arg Phe Gln Asp Val
 405 410 415
 Gln Val Thr Ala Val Glu Asn Thr Gln Asp Cys Asn Asp Ser Tyr Glu
 420 425 430
 Arg

<210> 9109

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 9109

Gly Ile Thr Val Arg Tyr Ser Val Gln Val Val Cys Phe Ala Ala Thr
 1 5 10 15
 Gly Gly Thr Met Asp Ile Thr Gln His Leu Ala Thr Thr Leu Lys Ala
 20 25 30
 Leu Arg Leu Ala Arg Gly Trp Ser Leu Ser Lys Leu Ala Glu Glu Thr
 35 40 45
 Gly Val Ser Lys Ala Met Leu Gly Gln Ile Glu Arg Asn Glu Ser Ser
 50 55 60
 Pro Thr Val Ser Thr Leu Trp Lys Ile Ala Thr Gly Leu Asn Val Pro
 65 70 75 80
 Phe Ser Ala Phe Ile Thr Pro Glu Ser Glu Pro Gln Ala Val Phe Asp
 85 90 95
 Pro Gln Gln Gln Ala Met Val Val Lys Pro Leu Phe Pro Trp Asp Glu
 100 105 110
 Gln Leu Lys Phe Asp His Phe Ser Ile Thr Leu Ser Pro Gly Ala Leu
 115 120 125
 Ser Glu Ser Thr Pro His Glu Ala Gly Val Ile Glu His Val Val Val
 130 135 140
 Ile Ser Gly Glu Leu Asp Met Gln Ile Asp Gly Val Trp Arg Thr Ile
 145 150 155 160
 Tyr Ala Asp Ser Gly Val Arg Phe Ala Gly Asp Lys Pro His Ala Tyr
 165 170 175
 Arg Asn Ser Ser Ala Arg Thr Val His Phe His Ser Leu Ile His Tyr
 180 185 190
 Pro Arg
 195

<210> 9110

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 9110

Trp Arg Glu Ser Val Phe Ser Glu Leu Ala Cys Ser Ala Ser Gly Trp
 1 5 10 15
 Leu Pro Ser Ala Arg Gln Ala Gly Leu Arg Leu Pro Glu Arg Lys Arg
 20 25 30
 Gln Asn Arg Ser Arg Val Ala Gly Ser Arg Gly His Ala Pro Arg Gly
 35 40 45
 Ala Pro Gly Arg Ala Leu Arg Val Arg Val His Pro Ala Leu Ala Ser
 50 55 60
 Arg Val Gln Gln Pro Asp Pro Pro Phe Gln Ala Asp Ala Asp Arg Arg
 65 70 75 80
 Arg Pro Glu Tyr Gly Ser Arg Pro Leu Pro Gly Ala Arg Arg His Pro
 85 90 95
 Arg Ser Pro Arg Arg Thr Asp Thr Ser His Arg Pro Ser Pro Gly Ala
 100 105 110
 Ala Ser Gln Arg Phe Leu Pro Pro Arg Gln Thr Gln Arg Tyr Ile Asn
 115 120 125
 Arg His Met Pro Ala Arg Pro Arg Ala Ala Arg Asp Val Leu Ser Leu
 130 135 140
 Ser Ser Phe Cys Cys Phe Leu Ala
 145 150

<210> 9111

<211> 270

<212> PRT

<213> Enterobacter cloacae

<400> 9111

Gly Arg Glu Leu Met Gln Pro Ser Glu Gly Leu Phe Thr Arg Gln Leu

1				5					10				15
Pro	Gly	Asp	Arg	Tyr	Arg	Glu	Gln	Thr	Asp	Pro	Val	Leu	Gln
			20					25					30
Ala	Ile	Asn	Val	Ser	Phe	Asp	Gly	Phe	Gln	Ala	Leu	Thr	Asp
		35					40					45	Leu
Leu	Asn	Ile	Gly	Val	Gly	Glu	Leu	Arg	Cys	Ile	Ile	Gly	Pro
	50					55				60			Asn
Ala	Gly	Lys	Thr	Thr	Leu	Met	Asp	Val	Ile	Thr	Gly	Lys	Thr
65					70				75				80
Lys	Ser	Gly	Lys	Ala	Ile	Tyr	Asp	Gln	Ser	Ile	Asp	Leu	Thr
				85					90				95
Glu	Pro	Ala	Ala	Ile	Ala	Arg	Gln	Gly	Ile	Gly	Arg	Lys	Phe
			100					105					110
Pro	Thr	Val	Phe	Glu	Ala	Leu	Thr	Val	Gly	Glu	Asn	Leu	Glu
		115					120					125	Ile
Met	Lys	Ala	Asp	Arg	Ser	Val	Trp	Ala	Ser	Leu	Arg	Ala	Thr
	130					135					140		Leu
Gly	Glu	Gln	Arg	Asp	Arg	Ile	Asp	Glu	Met	Leu	Val	Leu	Leu
145				150					155				Arg
Gly	Ser	Glu	Arg	Asp	Arg	Arg	Ala	Gly	Leu	Leu	Ser	His	Gly
				165					170				Gln
Gln	Phe	Leu	Glu	Ile	Gly	Met	Leu	Leu	Val	Gln	Asp	Pro	His
			180				185						190
Leu	Leu	Asp	Glu	Pro	Ala	Ala	Gly	Met	Thr	Asp	Ala	Glu	Thr
		195					200					205	Glu
Thr	Ala	Glu	Leu	Phe	Arg	Thr	Leu	Ala	Gly	Lys	His	Ser	Leu
	210					215					220		Met
Val	Glu	His	Asp	Met	Gly	Phe	Val	Glu	Thr	Ile	Ala	Asp	His
225				230					235				Val
Val	Leu	His	Gln	Gly	Arg	Val	Leu	Ala	Glu	Gly	Ser	Leu	Arg
			245					250					Glu
Gln	Ala	Asn	Glu	Gln	Val	Ile	Asp	Val	Tyr	Leu	Gly	Arg	
			260					265					270

<210> 9112

<211> 198

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (188)

<400> 9112

Gly	Glu	Gly	Met	Leu	Gln	Val	Ser	Glu	Leu	Asn	Gln	Tyr	Tyr	Gly	Gly
1			5					10						15	
Ser	His	Ile	Leu	Arg	Gly	Val	Ser	Phe	Glu	Ala	Val	Val	Gly	Glu	Val
			20					25					30		
Thr	Cys	Leu	Leu	Gly	Arg	Asn	Gly	Val	Gly	Lys	Thr	Thr	Leu	Leu	Arg
		35					40					45			
Cys	Leu	Met	Gly	Leu	Ile	Pro	Val	Lys	Ala	Gly	Glu	Val	Val	Trp	Gln
	50					55					60				
Gly	Lys	Thr	Ile	Thr	His	Ser	Lys	Pro	His	Gln	Arg	Val	Gln	Ser	Gly
65					70				75					80	
Val	Ala	Tyr	Val	Pro	Gln	Gly	Arg	Glu	Ile	Phe	Pro	Arg	Leu	Thr	Val
				85					90					95	
Glu	Glu	Asn	Leu	Leu	Met	Gly	Leu	Thr	Arg	Phe	Ser	Ala	Gly	Asn	Ala
			100					105					110		
Arg	Ser	Val	Pro	Glu	Glu	Ile	Trp	Gln	Leu	Phe	Pro	Val	Leu	Lys	Glu
		115					120					125			
Met	Lys	His	Arg	Arg	Gly	Gly	Asp	Leu	Ser	Gly	Gly	Gln	Gln	Gln	Gln

130		135		140	
Leu	Ala	Ile	Gly	Arg	Ala
145		150		155	
Asp	Glu	Pro	Thr	Glu	Gly
		165		170	
Gln	Val	Ile	Arg	Asn	Leu
		180		185	
Gly	Gly	Ala	Ile	Leu	
		195			

<210> 9113

<211> 312

<212> PRT

<213> Enterobacter cloacae

<400> 9113

Ser	Val	Tyr	Lys	Ile	Leu	Ile	Phe	Gln	Gly	Arg	Lys	Met	Thr	Arg	Lys
1			5						10					15	
Asp	Gly	Leu	Leu	Ala	Leu	Leu	Val	Val	Val	Ala	Trp	Gly	Leu	Asn	Phe
		20						25					30		
Val	Val	Ile	Lys	Met	Gly	Leu	His	Asn	Met	Pro	Pro	Leu	Met	Leu	Ala
		35					40					45			
Gly	Leu	Arg	Phe	Leu	Leu	Val	Ala	Phe	Pro	Ala	Leu	Leu	Phe	Val	Ala
	50					55					60				
Arg	Pro	Lys	Ile	Pro	Leu	Lys	Leu	Leu	Leu	Gly	Tyr	Gly	Leu	Thr	Ile
65					70					75					80
Ser	Phe	Gly	Gln	Phe	Ala	Phe	Leu	Phe	Cys	Ala	Ile	Lys	Phe	Gly	Met
				85					90					95	
Pro	Ala	Gly	Leu	Ala	Ser	Leu	Val	Leu	Gln	Val	Gln	Ala	Phe	Phe	Thr
		100						105					110		
Ile	Ile	Leu	Gly	Ala	Phe	Val	Phe	Gly	Glu	Arg	Leu	Gln	Gly	Lys	Gln
		115						120					125		
Leu	Ala	Gly	Ile	Ser	Leu	Ala	Val	Phe	Gly	Val	Leu	Val	Leu	Ile	Glu
	130					135					140				
Gly	Ser	Leu	Asn	Gly	Gln	His	Val	Ala	Leu	Leu	Gly	Phe	Met	Leu	Thr
145					150						155				160
Leu	Ala	Ala	Gly	Leu	Ser	Trp	Ala	Cys	Gly	Asn	Ile	Phe	Asn	Lys	Leu
			165						170					175	
Ile	Met	Gln	His	Glu	Ala	Arg	Pro	Ala	Val	Leu	Ser	Leu	Val	Val	Trp
		180						185						190	
Ser	Ala	Leu	Ile	Pro	Ile	Val	Pro	Phe	Met	Ala	Ala	Ser	Phe	Ile	Leu
		195				200						205			
Glu	Gly	Pro	Gln	Ala	Met	Leu	Lys	Ser	Leu	Val	Glu	Ile	Asp	Leu	Thr
	210					215					220				
Thr	Ile	Leu	Ser	Leu	Ile	Tyr	Leu	Ala	Phe	Val	Ala	Ser	Ile	Ile	Gly
225					230					235					240
Tyr	Gly	Ile	Trp	Gly	Ser	Leu	Leu	Gly	Arg	Tyr	Glu	Thr	Trp	Arg	Val
			245						250					255	
Ala	Pro	Leu	Ser	Leu	Leu	Val	Pro	Val	Val	Gly	Leu	Ala	Ser	Ala	Ala
		260						265						270	
Leu	Leu	Leu	Asp	Glu	Thr	Leu	Ser	Ala	Leu	Gln	Leu	Cys	Gly	Ala	Gly
	275						280					285			
Leu	Ile	Met	Ala	Gly	Leu	Tyr	Ile	Asn	Val	Phe	Gly	Leu	Arg	Val	Arg
	290					295					300				
Arg	Ala	Thr	Arg	Val	Gln	Ser									
305					310										

<210> 9114

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 9114

```

Ile Arg Arg Trp Arg Trp Gly Arg Gly Asp Cys Pro Pro Arg Asp Gly
1      5      10      15
Asp Cys Arg Leu Glu Pro Gly Thr Gly Arg Asp Arg Lys Phe Thr Gly
20      25      30
Gly Arg Ser Gly Ala Gly Thr Ala Asp Gln Thr Ser Trp Thr Val Arg
35      40      45
Ile Leu Met Ser Thr Leu Asp Pro Leu Phe Ala Arg Leu Ala Arg Ser
50      55      60
Thr Phe Arg Ser Arg Phe His Leu Gly Thr Lys Glu Arg Gln Tyr Cys
65      70      75
Trp Asp Lys Gly Ala Glu Thr Ile Asp Lys His Ala Ala Asp Phe Val
85      90      95
Ala Ala Arg Leu Ala Pro Ala His Pro Val Asn Asp Gly Lys Gln Thr
100     105     110
Pro Met Arg Gly His Pro Val Phe Ile Ala Gln His Ala Thr Ala Thr
115     120     125
Cys Cys Arg Gly Cys Leu Ala Lys Trp His Ala Ile Pro Gln Gly Val
130     135     140
Pro Leu Ser Ala Gln Gln Gln Tyr Ile Val Asn Val Ile His His
145     150     155     160
Trp Leu Val Ile Glu Val Asn Arg Ala Ser
165     170

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<210> 9115

<211> 358

<212> PRT

<213> Enterobacter cloacae

<400> 9115

```

Asn Arg Ile Arg Thr His Leu Leu Tyr Lys Arg Met Val Leu Tyr Leu
1      5      10      15
Arg Gln Leu Asn Leu Pro Gly Asp Asn Ile Met Phe Asn Lys Leu Ala
20      25      30
Tyr Ser Ala Val Ala Leu Thr Val Ser Leu Gly Thr Val Met Ser Cys
35      40      45
Gln Ala Glu Ala Thr Gly Lys Asp Tyr Ala Ser Ala Phe Asn Gln Val
50      55      60
Lys Gln Ile Asn Ala Gly Asp Leu Asn Val Gly Tyr Val Asp Ile Gly
65      70      75      80
Pro Lys Glu Gly Gln Pro Val Ile Leu Leu His Gly Trp Pro Tyr Asp
85      90      95
Ile His Ser Tyr Ala Glu Val Ala Pro Ala Leu Ala Ala Lys Gly Tyr
100     105     110
Arg Val Ile Val Pro Ser Leu Arg Gly Tyr Gly Thr Thr Arg Phe Ile
115     120     125
Ser Asp Lys Thr Pro Arg Asn Gly Gln Pro Ser Ala Met Ala Lys Asp
130     135     140
Ile Val Asn Leu Met Asp Ala Leu Asn Ile Lys Gln Ala Val Phe Ala
145     150     155     160
Gly Tyr Asp Trp Gly Ala Arg Thr Ala Asp Ile Val Ala Ala Leu Trp
165     170     175
Pro Glu Arg Val Lys Ser Leu Val Ser Val Ser Gly Tyr Leu Ile Ser
180     185     190
Ser Gln Ala Ile Gly Lys Gln Pro Leu Pro Pro Lys Ala Glu Val Gln
195     200     205
Trp Trp Tyr Gln Phe Tyr Phe Ala Thr Pro Arg Gly Ala Glu Gly Tyr
210     215     220
Ala Lys Asn Thr His Asp Phe Ala Arg Leu Ile Trp Ser Gln Ala Ser
225     230     235     240

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<400> 9117

```

Phe Ile Pro Asp Val Ala Arg Tyr Ile Leu Tyr Leu His Asp Ser Ala
1      5      10
Val Tyr Asp Ala Tyr Ser Thr Arg Gly Pro Asn Val Gln Ser Lys
20      25      30
Arg Ala Asp Ile Arg Ile Ile Asn Ser Glu Thr Leu Ser Asp Asn Trp
35      40      45
Tyr Asn Leu Lys Lys Tyr Thr Phe Asp Phe Gln Arg Ser Asp Gly Asp
50      55      60
Trp Gln Arg Gln Glu Arg Glu Val Tyr Asp Arg Gly Asn Gly Ala Thr
65      70      75      80
Ile Leu Leu Tyr Asn Arg Asp Ser Lys Thr Val Ile Leu Thr Arg Gln
85      90      95
Phe Arg Phe Pro Val Phe Ile Asn Gly His Glu Glu Asp Leu Ile Glu
100      105      110
Ala Ala Ala Gly Leu Leu Asp Asn Leu Asp Pro Glu Ser Arg Ile Lys
115      120      125
Ala Glu Ala Glu Glu Glu Thr Gly Phe Lys Val Thr Arg Val Glu Lys
130      135      140
Ile Phe Glu Ala Tyr Met Ser Pro Gly Ser Val Thr Glu Lys Leu Tyr
145      150      155      160
Phe Tyr Leu Ala Glu Tyr His Pro Gln Asp Arg Thr Ser Ala Gly Gly
165      170      175
Gly Val Lys Ala Glu Gly Glu Asp Ile Asp Val Leu Glu Met Thr Leu
180      185      190
Asp Asp Ala Leu Gln Gly Ile Glu Asn Gly Gln Ile Val Asp Gly Lys
195      200      205
Thr Ile Met Leu Leu Tyr His Leu Ala Leu Lys Gly Ile Leu
210      215      220

```

<210> 9118

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 9118

```

Thr Pro Gln His Gly Asp Ala Lys Met Ala Asp Trp Asp Pro Ser Leu
1      5      10
Tyr Leu Gln Tyr Ser Ala Glu Arg Thr Arg Pro Ala Ala Glu Leu Leu
20      25      30
Ala Arg Val Pro Leu Ala Asp Ile Thr Ser Ala Val Asp Leu Gly Cys
35      40      45
Gly Pro Gly Asn Ser Thr Ala Leu Leu Lys Gln Arg Trp Pro Ser Ala
50      55      60
Gln Ile Ala Gly Val Asp Asn Ser Pro Ala Met Leu Glu Glu Ala Arg
65      70      75      80
Gln Ala Leu Pro Asp Cys His Phe Val Glu Ala Asp Ile Arg His Tyr
85      90      95
Lys Pro Asp Gln Pro Leu Ser Leu Ile Tyr Ala Asn Ala Ser Leu Gln
100      105      110
Trp Ile Pro Asp His Tyr His Leu Leu Pro His Leu Val Ser Leu Leu
115      120      125
Gln Leu Asn Gly Val Leu Ala Val Gln Met Pro Asp Asn Trp Leu Glu
130      135      140
Pro Thr His Ala Leu Met Arg Glu Val Ala Trp Glu Gln Gly Tyr Pro
145      150      155      160
Asp Arg Gly Arg Glu Pro Leu Pro Gly Ile His Ala Tyr Tyr Asp Ile
165      170      175
Leu Thr Glu Ala Gly Cys Asp Val Asp Ile Trp Arg Thr Thr Tyr Phe
180      185      190
His Gln Met Ser Ser His Gln Ala Ile Ile Asp Trp Val Ser Ala Thr

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```
<210> 9119
<211> 205
<212> PRT
<213> Enterobacter cloacae
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```
<210> 9120
<211> 304
<212> PRT
<213> Enterobacter cloacae
```

<400> 9120															
Tyr	Ser	Pro	Pro	Tyr	Ser	Arg	Ile	Glu	Asn	Gly	Met	Asp	Leu	Thr	Gln
1				5					10		.			15	
Leu	Glu	Met	Phe	Asn	Ala	Val	Ala	Leu	Thr	Gly	Ser	Ile	Thr	Gln	Ala
			20					25					30		
Ala	Gln	Lys	Val	His	Arg	Val	Pro	Ser	Asn	Leu	Thr	Thr	Arg	Ile	Arg
		35					40					45			
Gln	Leu	Glu	Ala	Asp	Leu	Gly	Val	Glu	Leu	Phe	Ile	Arg	Glu	Asn	Gln
	50					55					60				
Arg	Leu	Arg	Leu	Ser	Pro	Ala	Gly	His	Asn	Phe	Leu	Arg	Tyr	Ser	Lys
65					70					75				80	
Gln	Ile	Leu	Ala	Leu	Val	Asp	Glu	Ala	Arg	Met	Val	Val	Ala	Gly	Asp
				85					90					95	

Glu Pro Gln Gly Leu Phe Ser Leu Gly Ala Leu Glu Ser Thr Ala Ala
 100 105 110
 Val Arg Ile Pro Glu Ser Leu Ala Arg Phe Asn Gln Arg Tyr Pro Arg
 115 120 125
 Ile Gln Phe Ala Leu Ser Thr Gly Pro Ser Gly Thr Met Ile Asp Gly
 130 135 140
 Val Leu Glu Gly Thr Leu Ser Ala Ala Phe Val Asp Gly Pro Leu Ser
 145 150 155 160
 His Pro Glu Leu Glu Gly Met Pro Val Tyr Arg Glu Glu Met Met Leu
 165 170 175
 Val Thr Pro Ala Gly His Ala Glu Val Ser Lys Ala Thr Gln Val Ser
 180 185 190
 Gly Ser Asp Val Tyr Ala Phe Arg Ala Asn Cys Ser Tyr Arg Arg His
 195 200 205
 Leu Glu Ser Trp Phe His Ala Asp Arg Val Thr Pro Gly Arg Ile His
 210 215 220
 Glu Met Glu Ser Tyr His Gly Met Leu Ala Cys Val Ile Ala Gly Ala
 225 230 235 240
 Gly Ile Ala Leu Met Pro Arg Ser Met Leu Glu Ser Met Pro Gly His
 245 250 255
 His Gln Val Ala Ala Trp Pro Leu Ala Glu Asn Trp Arg Trp Leu Thr
 260 265 270
 Thr Trp Leu Val Trp Arg Arg Gly Ala Met Thr Arg Gln Leu Glu Ala
 275 280 285
 Phe Ile Ala Leu Leu Asn Glu Arg Gln Pro Pro Ala Pro Ser Cys
 290 295 300

<210> 9121

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 9121

Ala Phe Thr Gln Glu Asn Pro Ala Val Asn Arg Lys Arg Gly Met Thr
 1 5 10 15
 Met Ser Arg Arg Asn Thr Asp Ala Ile Thr Ile His Ser Ile Leu Asp
 20 25 30
 Trp Ile Glu Asp Asn Leu Glu Ser Pro Leu Ser Leu Glu Lys Val Ser
 35 40 45
 Glu Arg Ser Gly Tyr Ser Lys Trp His Leu Gln Arg Met Phe Lys Lys
 50 55 60
 Glu Thr Gly His Ser Leu Gly Gln Tyr Ile Arg Ser Arg Lys Leu Thr
 65 70 75 80
 Glu Ile Ala Gln Lys Leu Lys Glu Ser Asn Glu Pro Ile Leu Tyr Leu
 85 90 95
 Ala Glu Arg Tyr Gly Phe Glu Ser Gln Gln Thr Leu Thr Arg Thr Phe
 100 105 110
 Lys Asn Tyr Phe Asp Val Pro Pro His Lys Tyr Arg Ile Thr Ser Met
 115 120 125
 Pro Gly Glu Ser Arg Tyr Leu Tyr Pro Leu Lys His Cys Ser
 130 135 140

<210> 9122

<211> 337

<212> PRT

<213> Enterobacter cloacae

<400> 9122

Met Arg Pro Pro Met Pro Glu Asn Ser Lys Lys Met Thr Asn Leu Arg
 1 5 10 15
 His Pro Ser Pro Arg Ala Val Val Leu Ala Tyr Asp Gly Leu Cys Thr


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<210> 9123
<211> 79
<212> PRT
<213> Enterobacter cloacae
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<210> 9124
<211> 402
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<212> PRT

<213> Enterobacter cloacae

<400> 9124

Tyr Leu Ile Pro Asp Val Ile Thr His Asn Gly Val Ser Met Gln Ser
 1 5 10 15
 Thr Ala Ser Leu Phe Pro Ala Val Leu Ala Gly Phe Val Ala Val Leu
 20 25 30
 Val Gly Tyr Ala Ser Ser Ala Ala Ile Ile Trp Gln Ala Ala Ala Ala
 35 40 45
 Ala Gly Ala Ser Thr Gln Gln Ile Ala Gly Trp Met Thr Ala Leu Gly
 50 55 60
 Leu Gly Met Gly Ile Ser Thr Leu Val Leu Ser Trp Trp Tyr Lys Ala
 65 70 75 80
 Pro Val Leu Thr Ala Trp Ser Thr Pro Gly Ala Ala Leu Leu Ala Thr
 85 90 95
 Ser Leu His Gly Val Thr Leu Ala Glu Thr Ile Gly Val Phe Ile Phe
 100 105 110
 Ala Asn Thr Leu Ile Leu Leu Cys Gly Val Thr Gly Leu Phe Ala Arg
 115 120 125
 Leu Met Lys Leu Ile Pro His Ser Leu Ala Ala Met Leu Ala Gly
 130 135 140
 Val Leu Leu Gln Phe Gly Leu Lys Ala Phe Ser Asn Leu Glu Gly His
 145 150 155 160
 Ile Phe Leu Cys Gly Ser Met Leu Ala Ala Trp Leu Val Ala Lys Ala
 165 170 175
 Val Ala Pro Arg Tyr Ala Ile Val Ala Thr Leu Leu Val Gly Val Phe
 180 185 190
 Val Ala Trp Ala Gly Gly Asp Val Val Thr Asn Arg Met Thr Leu Ser
 195 200 205
 Val Ile Met Pro Glu Phe Ile Ala Pro Ala Phe Thr Phe Thr Ser Leu
 210 215 220
 Ile Ser Ile Gly Leu Pro Ile Phe Leu Val Thr Met Ala Ser Gln Asn
 225 230 235 240
 Ala Pro Gly Phe Ala Thr Met Gln Ala Ser Gly Tyr Pro Leu Ala Val
 245 250 255
 Ser Pro Leu Ile Val Ala Thr Gly Gly Leu Ala Leu Leu Leu Ser Pro
 260 265 270
 Phe Gly Val Tyr Ser Ile Cys Ile Ala Ala Ile Thr Ala Ala Ile Cys
 275 280 285
 Gln Ser Pro Asp Ala His Pro Asp Ala Ser Lys Arg Trp Leu Ala Ala
 290 295 300
 Ala Ala Ala Gly Gly Phe Tyr Leu Leu Ala Gly Val Phe Gly Gly Ser
 305 310 315 320
 Ile Ser Gly Leu Met Ser Ala Leu Pro Leu Ser Gly Ile Gln Thr Leu
 325 330 335
 Ala Gly Leu Ala Leu Leu Gly Thr Ile Ser Gly Ser Leu Tyr Gln Ala
 340 345 350
 Leu Asn His Glu Ala Glu Arg Asp Ala Ala Ile Val Thr Phe Leu Met
 355 360 365
 Thr Ala Ser Gly Val Thr Leu Leu Gly Ile Gly Ser Ala Phe Trp Gly
 370 375 380
 Leu Val Leu Gly Gly Ile Cys Tyr Ala Val Phe Ser Arg Leu Arg Arg
 385 390 395 400
 Ala

<210> 9125

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 9125

Asn Cys Asn Arg Tyr Val Arg Pro Val Val Lys Asn Leu Ala Gly Val
 1 5 10 15
 Val Asp Leu Phe Ser Arg Lys Val Ile Gly Trp Ser Met Gln Pro Arg
 20 25 30
 Met Thr Lys Glu Ile Val Leu Asn Ala Leu Leu Met Ala Val Trp Arg
 35 40 45
 Arg Asn Pro Gln Lys Gln Val Leu Val His Ser Asp Gln Gly Ser Gln
 50 55 60
 Tyr Thr Ser His Glu Trp Gln Ser Phe Leu Lys Ser His Gly Leu Glu
 65 70 75 80
 Gly Ser Met Ser Arg Arg Gly Asn Cys His Asp Asn Ala Val Ala Glu
 85 90 95
 Ser Phe Phe Gln Leu Leu Lys Arg Glu Arg Ile Lys Lys Arg Ile Tyr
 100 105 110
 Gly Thr Arg Asp Glu Ala Arg Ser Asp Ile Phe Asp Tyr Ile Glu Met
 115 120 125
 Phe Tyr Asn Ser Lys Arg Arg His Gly Ser Ser Glu Gln Met Pro Pro
 130 135 140
 Ala Glu Tyr Glu Asn Leu Tyr Tyr Gln Arg Leu Arg Ser Val
 145 150 155

<210> 9126

<211> 200

<212> PRT

<213> Enterobacter cloacae

<400> 9126

Lys Tyr Gln Asn Pro Asn Lys Ser Ile Thr Leu Asn Tyr Gly Asp Gln
 1 5 10 15
 Arg Met Thr Ile Pro Thr Leu Thr Thr Glu Arg Leu Ile Leu Arg Pro
 20 25 30
 Leu Ile Ala Glu Asp Ala Val Gln Ile Gln Gln Arg Tyr Pro Arg Trp
 35 40 45
 Glu Ile Val Arg Tyr Met Val Ala Ser Val Pro Trp Pro Tyr Pro Glu
 50 55 60
 Asn Gly Ala Glu Asn Tyr Val Asn Asn Val Ala Leu Pro Asp Met Ala
 65 70 75 80
 Lys Gly Ile Ala Trp Phe Trp Thr Ile Arg Arg Arg Glu Ala Pro Asp
 85 90 95
 Glu Leu Met Gly Leu Ile Cys Leu Tyr Asp Val Glu Asp Asn Asn Arg
 100 105 110
 Gly Phe Trp Leu Ala Pro Glu Phe His Gly Gln Gly Tyr Met Arg Glu
 115 120 125
 Ala Ser Ile Ala Ala Thr Asp Tyr Trp Phe Asn Thr Leu Asn Lys Pro
 130 135 140
 Val Leu Arg Ala Pro Lys Ala Ala Ala Asn Ser Arg Ser Arg Arg Ile
 145 150 155 160
 Ser Asp Ser Ser Gly Met Arg Leu Ile Arg Thr Glu Lys Lys Ala Tyr
 165 170 175
 Val Ser Gly Leu Leu Asp Ser Glu Leu Trp Glu Ile Thr Arg Asp Glu
 180 185 190
 Trp Asn Ala Arg Gln Val Ser
 195 200

<210> 9127

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 9127

Ala	Ile	Ile	Ser	Ala	Val	Thr	Lys	Leu	Leu	Ala	Arg	Ala	Thr	Ile	Val
1			5					10						15	
Lys	Ser	Thr	Ser	Asp	Leu	Phe	Asn	Asp	Ile	Ile	Pro	Leu	Gly	Arg	Leu
			20				25						30		
Ile	His	Met	Val	Asn	Gln	Lys	Lys	Asp	Arg	Leu	Leu	Asn	Asp	Tyr	Leu
		35				40						45			
Ser	Pro	Leu	Asp	Ile	Thr	Ala	Thr	Gln	Phe	Lys	Val	Leu	Cys	Ser	Ile
	50					55					60				
Arg	Cys	Glu	Val	Cys	Ile	Thr	Pro	Val	Glu	Leu	Lys	Lys	Val	Leu	Ser
65					70					75					80
Val	Asp	Leu	Gly	Ala	Leu	Thr	Arg	Met	Leu	Asp	Arg	Leu	Val	Cys	Lys
			85					90						95	
Gly	Trp	Val	Glu	Arg	Ser	Pro	Asn	Pro	Asn	Asp	Lys	Arg	Gly	Val	Leu
		100					105						110		
Val	Lys	Leu	Thr	Ser	Asp	Gly	Ala	Ala	Met	Cys	Glu	Gln	Cys	His	Gln
		115					120					125			
Leu	Val	Gly	Gln	Thr	Leu	His	Gln	Glu	Leu	Thr	Lys	Asn	Leu	Thr	Ala
		130				135					140				
Asp	Glu	Val	Ala	Thr	Leu	Glu	Leu	Leu	Leu	Lys	Lys	Ile	Leu	Pro	
145					150					155					160

<210> 9128

<211> 422

<212> PRT

<213> Enterobacter cloacae

<400> 9128

Ser	Cys	Asn	Asn	Thr	Thr	Lys	Lys	His	Lys	His	Leu	Ser	Gly	Arg	Lys
1			5					10						15	
Met	Lys	Pro	Ser	Ile	Arg	Arg	Ser	Thr	Ala	Ala	Leu	Leu	Ala	Ser	Ser
			20				25						30		
Leu	Leu	Leu	Thr	Ile	Gly	Arg	Gly	Ala	Thr	Leu	Pro	Phe	Met	Thr	Ile
		35				40						45			
Tyr	Leu	Thr	Arg	Val	Tyr	Asp	Met	Ser	Val	Glu	Asn	Ile	Gly	Tyr	Ala
	50					55					60				
Leu	Thr	Val	Ala	Leu	Thr	Ile	Gly	Val	Val	Phe	Ser	Leu	Gly	Phe	Gly
65					70					75					80
Ile	Leu	Ala	Asp	Lys	Phe	Asp	Lys	Lys	Arg	Tyr	Met	Leu	Ile	Ala	Ile
			85					90						95	
Val	Ala	Phe	Ile	Ala	Gly	Phe	Val	Ala	Ile	Pro	Leu	Val	Asn	Asn	Val
			100					105					110		
Thr	Leu	Val	Val	Leu	Phe	Phe	Ala	Leu	Ile	Asn	Cys	Ala	Tyr	Ser	Val
		115					120					125			
Phe	Ser	Thr	Val	Leu	Lys	Ala	Trp	Phe	Ala	Asp	Val	Leu	Thr	Ser	Ser
	130					135				140					
Glu	Lys	Ala	His	Val	Phe	Ser	Leu	Asn	Tyr	Ser	Phe	Leu	Asn	Ile	Gly
145					150				155						160
Trp	Thr	Ile	Gly	Pro	Pro	Ile	Gly	Thr	Leu	Leu	Val	Met	Tyr	Ser	Leu
			165					170						175	
Gln	Leu	Pro	Phe	Leu	Leu	Ala	Ala	Phe	Cys	Ala	Ala	Leu	Pro	Leu	Gly
			180					185					190		
Phe	Ile	His	Phe	Phe	Val	Gln	Lys	Ser	Ile	Ala	Ser	Asp	Ser	Pro	Glu
		195					200					205			
Glu	Lys	Met	Pro	Trp	Gln	Pro	Ser	Val	Leu	Leu	Lys	Asp	Arg	Ala	Leu
	210					215					220				
Phe	Trp	Tyr	Thr	Leu	Ser	Gly	Leu	Leu	Ala	Ser	Tyr	Val	Gly	Gly	Ser
225					230					235					240
Phe	Ala	Thr	Cys	Ile	Ser	Gln	Tyr	Val	Leu	Ala	Ala	His	Ala	Asp	Ser
			245						250					255	
Asp	Phe	Ala	Glu	Lys	Val	Val	Ala	Val	Val	Leu	Pro	Val	Asn	Ala	Ala

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<210> 9129
<211> 267
<212> PRT
<213> Enterobacter cloacae
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<400> 9129															
Ser 1	Ala	Ala	Gly 5	Pro	Val	Arg	Cys	Gly 10	Ala	Thr	Ala	Ser	Phe	Ile 15	Gly
Leu	Asp	Asp	Gly 20	His	Arg	His	Gly 25	Lys	Asn	Val	Ala	Phe	Ala 30	Ala	Asn
Gly	Phe	Asn 35	Val	Gly	Arg	Arg	Ala 40	Gly	Ile	Phe	Ile	Gln 45	Ala	Leu	Ser
His	Ala 50	Ala	His	Gln	Glu	Ile 55	Asn	Arg	Thr	Leu	Lys 60	Gln	Leu	Gly	Ile
Thr 65	Ser	Leu	Arg	Gln	Val	Gln 70	Gln	Leu	Ile	Ala 75	Gly	Gln	His	Pro	Leu 80
Arg	Met	Ile	Glu	Glu 85	Tyr	Ala	Gln	Lys	Ala 90	Ile	Phe	Arg	Pro	Ala 95	Glu
Arg	His	Asn 100	His	Pro	Leu	Val	Ile	Asn 105	Gln	Met	Thr	Arg	His 110	Gly	Ile
Gln	Leu	Pro 115	Phe	Thr	Glu	Tyr	His 120	Gln	Ala	Pro	Cys	Leu 125	Gly	His	Leu
Lys	Ile 130	Arg	Arg	His	Ser	Thr 135	Lys	Thr	Thr	Gln	Asp 140	Ser	Phe	Asp	Thr
Arg 145	Gln	Gln	Phe	Ala	Gly 150	His	Lys	Arg	Phe	His 155	His	Ile	Ile	Val	Gly 160
Ala	His	Leu	Gln	Ser 165	Gln	Asp	Pro	Val	Arg 170	Val	Leu	Val	Ala 175	Arg	Gly
Glu	His	Gln 180	Asp	Arg	Gln	Ile	Leu	Met 185	Pro	Ala	Ala	Ala	Gln 190	Leu	Ser
Thr	Gln	Arg 195	Gln	Ala	Ile	Ile	Ala 200	Gly	His	His	His	Val 205	Gln	His	His
Gln	Val 210	Asp	Met	Leu	Phe	Val 215	Glu	His	Tyr	Ala	His 220	Leu	Phe	Pro	Val
Arg 225	Arg	Ala	Arg	Gly 230	Val	Val	Ala	Gly	Phe	His 235	Glu	Val	Ile	Asp	Asn 240
Gln	Phe	Thr	Asn 245	Ile	Pro	Val	Val	Ile	Asp 250	Lys	Asp	Val	Ile	Asn	255
Met	Leu	His	Arg	Arg	Leu	Leu	Ile	Lys	Arg						

260

265

<210> 9130

<211> 416

<212> PRT

<213> Enterobacter cloacae

<400> 9130

Gly	Phe	Lys	Ile	Val	Ser	Ser	Ser	Phe	Arg	Gln	Arg	Ile	Pro	Asp	Ile	1	5	10	15
Pro	Met	Thr	Thr	His	Thr	Val	Ser	Arg	Arg	Val	Ala	Trp	Leu	Arg	Val	20	25	30	
Val	Thr	Leu	Ala	Ile	Ala	Ala	Phe	Ile	Phe	Asn	Thr	Thr	Glu	Phe	Val	35	40	45	
Pro	Val	Gly	Leu	Leu	Ser	Asp	Ile	Ala	Ala	Ser	Phe	His	Met	Glu	Thr	50	55	60	
Ala	Gln	Val	Gly	Ile	Met	Leu	Thr	Ile	Tyr	Ala	Trp	Val	Val	Ala	Leu	65	70	75	80
Met	Ser	Leu	Pro	Phe	Met	Leu	Leu	Thr	Ser	Gln	Met	Glu	Arg	Arg	Lys	85	90	95	
Leu	Leu	Ile	Gly	Leu	Phe	Val	Val	Phe	Ile	Ala	Ser	His	Val	Leu	Ser	100	105	110	
Phe	Met	Ala	Trp	Asn	Phe	Thr	Val	Leu	Val	Ile	Ser	Arg	Val	Gly	Ile	115	120	125	
Ala	Phe	Ala	His	Ala	Val	Phe	Trp	Ser	Ile	Thr	Ala	Ser	Leu	Ala	Ile	130	135	140	
Arg	Leu	Ala	Pro	Ala	Gly	Lys	Arg	Ala	Gln	Ala	Leu	Ser	Leu	Ile	Ala	145	150	155	160
Thr	Gly	Thr	Ala	Leu	Ala	Met	Val	Leu	Gly	Leu	Pro	Ile	Gly	Arg	Ile	165	170	175	
Val	Gly	Gln	Tyr	Phe	Gly	Trp	Arg	Thr	Phe	Phe	Ala	Ile	Gly	Met		180	185	190	
Gly	Ala	Leu	Ile	Thr	Leu	Val	Cys	Leu	Ile	Lys	Leu	Leu	Pro	Lys	Leu	195	200	205	
Pro	Ser	Glu	His	Ser	Gly	Ser	Leu	Lys	Ser	Leu	Pro	Leu	Leu	Met	Arg	210	215	220	
Arg	Pro	Ala	Leu	Met	Ser	Ile	Tyr	Leu	Leu	Thr	Val	Ile	Val	Val	Thr	225	230	235	240
Ala	His	Tyr	Thr	Ala	Tyr	Ser	Tyr	Ile	Glu	Pro	Phe	Val	Gln	Val	Val	245	250	255	
Ala	Gly	Phe	Ser	Ala	Asn	Phe	Ala	Thr	Val	Leu	Leu	Leu	Ile	Leu	Gly	260	265	270	
Gly	Ala	Gly	Ile	Ile	Gly	Ser	Ile	Leu	Phe	Gly	Lys	Leu	Gly	Asn	Gln	275	280	285	
His	Ala	Ser	Ala	Leu	Val	Ser	Ser	Ala	Ile	Gly	Leu	Leu	Leu	Ala	Cys	290	295	300	
Leu	Leu	Leu	Leu	Met	Pro	Ala	Ala	Gly	Ser	Glu	Ser	His	Leu	Ala	Ile	305	310	315	320
Leu	Ser	Leu	Phe	Trp	Gly	Val	Ala	Ile	Met	Ile	Ile	Gly	Leu	Gly	Met	325	330	335	
Gln	Val	Lys	Val	Leu	Ala	Leu	Ala	Pro	Asp	Ala	Thr	Asp	Val	Ala	Met	340	345	350	
Ser	Leu	Phe	Ser	Gly	Ile	Phe	Asn	Leu	Gly	Ile	Gly	Ala	Gly	Ala	Leu	355	360	365	
Val	Gly	Asn	Gln	Ile	Ser	Leu	His	Val	Ser	Met	Ser	Ala	Ile	Gly	Tyr	370	375	380	
Leu	Gly	Ala	Ile	Pro	Ala	Leu	Ile	Ala	Leu	Ile	Trp	Ser	Val	Leu	Ile	385	390	395	400
Phe	Arg	Lys	Trp	Pro	Val	Ala	Met	Glu	Glu	Gln	Thr	Ser	His	Gly		405	410	415	

<210> 9131
 <211> 78
 <212> PRT
 <213> Enterobacter cloacae

<400> 9131
 Asp Val Thr Glu Glu Ile Met Lys Phe Ile Ala Ser Ala Ala Leu Thr
 1 5 10 15
 Leu Leu Val Leu Val Ser Gly Gln Ser Phe Ala Glu Gln Thr Pro Ser
 20 25 30
 Ala Gly Gln Gln Asn Asn Arg Asp Thr Met Ile Met Pro Ser Thr Gln
 35 40 45
 Asn Gln Ser Pro Trp Asp Phe Asn His Met Gly Ala Gly Ser Asp Lys
 50 55 60
 Ser Asp Glu Leu Gly Val Pro Tyr Tyr Asn His Asp Leu
 65 70 75

<210> 9132
 <211> 163
 <212> PRT
 <213> Enterobacter cloacae

<400> 9132
 Lys Cys Thr Val Arg Ala Leu Leu Leu Arg Tyr Ala Cys Gly Leu Ser
 1 5 10 15
 Pro Ala Lys Arg Thr Pro Glu Ser Ala Tyr Ile Val Arg Gln Thr Pro
 20 25 30
 Ser Ile Cys Ile Ser Ser Ser Pro Leu Ile Thr Thr Thr Cys Ser Ile
 35 40 45
 Thr Pro Ala Ser Cys Gly Val Asp Ser Leu Ser Ala Pro Gly Asp Arg
 50 55 60
 Val Met Glu Lys Trp Ser Asn Leu Ser Cys Ser Ser Gln Gly Lys Ser
 65 70 75 80
 Gly Phe Thr Thr Ile Ala Cys Cys Cys Gly Ser Asn Thr Ala Cys Gly
 85 90 95
 Ser Leu Ser Gly Val Ile Asn Ala Glu Lys Gly Thr Phe Ser Pro Val
 100 105 110
 Ala Ile Phe His Lys Val Glu Thr Val Gly Leu Asp Ser Leu Arg Ser
 115 120 125
 Ile Cys Pro Ser Ile Ala Phe Asp Thr Pro Val Ser Ser Ala Ser Phe
 130 135 140
 Asp Arg Leu Gln Pro Arg Ala Arg Arg Ser Ala Phe Ser Val Val Ala
 145 150 155 160
 Arg Cys

<210> 9133
 <211> 123
 <212> PRT
 <213> Enterobacter cloacae

<400> 9133
 His Ala Lys Ala Asn Pro Ala Ser Gln Pro Leu Phe Leu Ile Pro Ser
 1 5 10 15
 Asp Asn Arg Glu Asn Leu Pro Pro Lys Arg Pro Arg Arg Arg Leu Leu
 20 25 30
 Ser Leu Phe Lys Glu Trp Asn Met Gln Asn Thr Thr Gln Pro Ile Asp
 35 40 45
 Arg Ala Ser Leu Leu Ile Glu Ala Asn Lys Leu Ile Arg Asp His Glu
 50 55 60
 Asp Thr Leu Ala Gly Ile Glu Ala Thr Gly Val Glu Gln Arg Asn Gly

65					70				75					80	
Val	Leu	Val	Phe	Ser	Gly	Glu	Tyr	Phe	Leu	Asp	Glu	Gln	Gly	Leu	Pro
				85					90					95	
Thr	Pro	Lys	Ser	Thr	Ala	Val	Phe	Asn	Met	Phe	Lys	Tyr	Leu	Ala	His
			100					105					110		
Thr	Leu	Ser	Glu	Lys	Tyr	His	Leu	Val	Asp						
			115				120								

<210> 9134

<211> 528

<212> PRT

<213> Enterobacter cloacae

<400> 9134

Thr	Glu	Tyr	Glu	Asn	Asn	Asn	Met	Gln	Thr	Ala	Lys	Pro	His	Leu	Glu
1				5				10						15	
Leu	Leu	Thr	Cys	Glu	Ala	Ala	Tyr	Arg	His	Asn	Pro	Thr	Ala	Leu	Phe
			20					25					30		
His	Gln	Val	Cys	Gly	Ala	Arg	Pro	Ala	Thr	Leu	Leu	Leu	Glu	Ser	Ala
		35					40					45			
Asp	Ile	Asp	Ser	Lys	Asp	Asp	Leu	Lys	Ser	Leu	Leu	Leu	Val	Asp	Ser
	50					55					60				
Ala	Leu	Arg	Ile	Thr	Ala	Ser	Gly	Asp	Thr	Val	Thr	Ile	Lys	Ala	Leu
65					70					75					80
Ser	Glu	Asn	Gly	Ala	Ser	Leu	Leu	Pro	Leu	Leu	Asp	Ala	Ala	Leu	Pro
				85				90						95	
Ser	Gly	Ile	Glu	Asn	Glu	Arg	His	Pro	Asp	Leu	Arg	Ile	Leu	His	Phe
			100					105					110		
Pro	Pro	Val	Ser	Gln	Leu	Leu	Asp	Glu	Asp	Ala	Arg	Leu	Cys	Ser	Leu
		115					120					125			
Ser	Val	Phe	Asp	Ala	Phe	Arg	Leu	Leu	Gln	Asn	Leu	Val	Ala	Val	Pro
	130					135					140				
Glu	Asp	Glu	Arg	Glu	Ala	Met	Phe	Phe	Gly	Gly	Leu	Phe	Ala	Tyr	Asp
145					150					155					160
Leu	Val	Ala	Gly	Phe	Glu	Asn	Leu	Pro	Glu	Thr	Glu	Gln	Gly	Asn	Arg
				165					170					175	
Cys	Pro	Asp	Tyr	Cys	Phe	Tyr	Leu	Ala	Glu	Thr	Leu	Leu	Val	Ile	Asp
			180					185					190		
His	Gln	Lys	Lys	Tyr	Thr	Arg	Ile	Gln	Ala	Ser	Leu	Phe	Thr	Pro	Ser
		195					200					205			
Glu	Ser	Glu	Lys	Asn	Arg	Leu	Ala	Gln	Arg	Ile	Ala	Gln	Leu	Gln	Gln
		210				215					220				
Gln	Met	Ser	Glu	Ala	Pro	Pro	Ala	Leu	Pro	Val	Gln	Arg	Val	Glu	Lys
225					230					235					240
Met	Thr	Cys	Glu	Val	Ser	Gln	Thr	Asp	Asp	Gln	Tyr	Gly	Ala	Val	Val
				245					250					255	
Arg	Gln	Met	Gln	Lys	Ala	Ile	Arg	Ala	Gly	Glu	Ile	Phe	Gln	Val	Val
			260					265					270		
Pro	Ser	Arg	Arg	Phe	Ser	Leu	Pro	Cys	Pro	Ser	Pro	Leu	Ala	Ala	Tyr
		275					280					285			
Asp	Val	Leu	Lys	Lys	Ser	Asn	Pro	Ser	Pro	Tyr	Met	Phe	Phe	Met	Gln
	290					295					300				
Asp	Asn	Asp	Phe	Thr	Leu	Phe	Gly	Ala	Ser	Pro	Glu	Ser	Ser	Leu	Lys
305					310					315					320
Tyr	Asp	Ala	Thr	Ser	Arg	Gln	Ile	Glu	Ile	Tyr	Pro	Ile	Ala	Gly	Thr
				325					330					335	
Arg	Pro	Arg	Gly	Arg	Arg	Ala	Asp	Gly	Ser	Leu	Asp	Arg	Asp	Leu	Asp
			340					345					350		
Ser	Arg	Ile	Glu	Leu	Glu	Met	Arg	Thr	Asp	His	Lys	Glu	Leu	Ser	Glu
		355					360					365			
His	Leu	Met	Leu	Val	Asp	Leu	Ala	Arg	Asn	Asp	Leu	Ala	Arg	Ile	Cys

370		375		380
Thr Pro Gly Ser Arg	Tyr Val Ala Asp Leu Thr	Lys Val Asp Arg Tyr		
385	390	395		400
Ser Phe Val Met His	Leu Val Ser Arg Val Val	Gly Glu Leu Arg His		
	405	410		415
Asp Leu Asp Val Leu	His Ala Tyr Arg Ala	Cys Met Asn Met Gly Thr		
	420	425		430
Leu Ser Gly Ala Pro	Lys Val Arg Ala Met	Gln Leu Ile Ala Glu Ala		
	435	440		445
Glu Gly Arg Arg Arg	Gly Ser Tyr Gly Gly	Ala Val Gly Tyr Phe Thr		
	450	455		460
Ala His Gly Asp Leu	Asp Thr Cys Ile Val	Ile Arg Ser Ala Tyr Val		
465	470	475		480
Glu Asp Gly Ile Ala	Thr Val Gln Ala Gly	Ala Gly Ile Val Leu Asp		
	485	490		495
Ser Val Pro Gln Ser	Glu Ala Asp Glu Thr	Arg Ser Lys Ala Arg Ala		
	500	505		510
Val Leu Arg Ala Ile	Ala Thr Ala His	His Ala Gln Glu Ile Phe		
	515	520		525

<210> 9135

<211> 424

<212> PRT

<213> Enterobacter cloacae

<400> 9135

Ser Pro Asn Arg Ala	Leu Lys Thr Pro	Ala Ser Trp His	Arg Tyr Leu
1	5	10	15
Lys Leu Cys Val His	Ile Lys Glu Glu	Lys Met Thr Thr	Leu Leu Asn
	20	25	30
Pro Tyr Phe Gly Glu	Phe Gly Gly Met	Tyr Val Pro Gln	Ile Leu Met
	35	40	45
Pro Ala Leu Arg Gln	Leu Glu Glu Ala	Phe Val Ser Ala	Gln Lys Asp
	50	55	60
Pro Ala Phe Gln Ala	Glu Phe Thr Asp	Leu Leu Lys Asn	Tyr Ala Gly
65	70	75	80
Arg Pro Thr Ala Leu	Thr Lys Cys Arg	Asn Leu Thr Glu	Gly Thr Lys
	85	90	95
Thr Thr Leu Tyr Leu	Lys Arg Glu Asp	Leu Leu His Gly	Gly Ala His
	100	105	110
Lys Thr Asn Gln Val	Leu Gly Gln Ala	Leu Leu Ala Lys	Arg Met Gly
	115	120	125
Lys Thr Glu Ile Ile	Ala Glu Thr Gly	Ala Gly Gln His	Gly Val Ala
	130	135	140
Ser Ala Leu Ala Ser	Ala Leu Leu Gly	Leu Lys Cys Arg	Ile Tyr Met
145	150	155	160
Gly Ala Lys Asp Val	Glu Arg Gln Ser	Pro Asn Val Phe	Arg Met Arg
	165	170	175
Leu Met Gly Ala Glu	Val Ile Pro Val	His Ser Gly Ser	Ala Thr Leu
	180	185	190
Lys Asp Ala Cys Asn	Glu Ala Leu Arg	Asp Trp Ser Gly	Ser Tyr Glu
	195	200	205
Thr Ala His Tyr Met	Leu Gly Thr Ala	Ala Gly Pro His	Pro Phe Pro
	210	215	220
Thr Ile Val Arg Glu	Phe Gln Arg Met	Ile Gly Glu Glu	Thr Lys Ala
225	230	235	240
Gln Ile Leu Glu Lys	Glu Gly Arg Leu	Pro Asp Ala Val	Ile Ala Cys
	245	250	255
Val Gly Gly Gly Ser	Asn Ala Ile Gly	Met Phe Ala Asp	Phe Ile Asp
	260	265	270
Glu Thr Ser Val Gly	Leu Ile Gly Val	Glu Pro Ala Gly	His Gly Ile

275	280	285
Glu Thr Gly Glu His Gly Ala Pro Leu Lys His Gly Arg Val Gly Ile		
290	295	300
Tyr Phe Gly Met Lys Ala Pro Met Met Gln Thr Asp Glu Gly Gln Ile		
305	310	315
Glu Glu Ser Tyr Ser Ile Ser Ala Gly Leu Asp Phe Pro Ser Val Gly		
	325	330
Pro Gln His Ala Phe Leu Asn Ser Thr Gly Arg Ala Asp Tyr Val Ser		
	340	345
Ile Thr Asp Asp Glu Ala Leu Glu Ala Phe Lys Thr Leu Cys Arg Asn		
	355	360
Glu Gly Ile Ile Pro Ala Leu Glu Ser Ser His Ala Leu Ala His Ala		
	370	375
Leu Lys Met Met Lys Glu Asn Pro Glu Lys Glu Gln Leu Leu Val Val		
385	390	395
Asn Leu Ser Gly Arg Gly Asp Lys Asp Ile Phe Thr Val His Asp Ile		
	405	410
Leu Lys Ala Arg Gly Glu Ile		415
	420	

<210> 9136

<211> 350

<212> PRT

<213> Enterobacter cloacae

<400> 9136

Pro Leu Phe Cys Ala Val Cys Ala Ala Pro Ile Lys Asn Arg Ala Ala	
1	5
Val Trp His Trp Lys Val Asn Leu Gly Tyr Pro Pro Ala Ala Pro Phe	
	20
Thr Arg Ile Ala Pro Ala Arg Val Ala Leu Ser Arg Cys Arg Glu Arg	
	35
Met Gly Arg Ser Met Arg His Ala Ile Ala Pro Ala Pro Ala Met Asp	
	50
Tyr Arg Arg Phe Thr Lys Ile Cys Phe Ser Ile Gln Ala Leu Met Leu	
65	70
Pro Pro Ala Cys Tyr Pro Val Tyr Asn Cys Arg Leu Ile Asn Thr Cys	
	85
Asn Thr Gln Gly Glu Cys Met Ser Ile Thr Ala Lys Ser Val Tyr Arg	
	100
Asp Thr Gly Asn Phe Phe Arg Asn Gln Phe Ile Thr Phe Leu Leu Ile	
	115
Ala Leu Leu Cys Ala Phe Ile Thr Val Val Leu Gly His Ala Phe Ser	
	130
Pro Ser Asp Glu Gln Ile Ala Thr Leu Ser Gln Gly Asp His Leu Ala	
145	150
Gly Ser Ala Gly Leu Phe Asp Leu Val Gln Asn Met Thr Pro Glu Gln	
	165
Gln Gln Ile Leu Leu Arg Ala Ser Ala Ala Ser Thr Phe Ser Gly Leu	
	180
Ile Gly Asn Ala Ile Leu Ala Gly Gly Val Leu Leu Met Ile Gln Leu	
	195
Val Ser Ala Gly Gln Arg Val Ser Ala Leu Arg Ala Ile Gly Ala Ser	
	210
Ala Pro Val Leu Pro Lys Leu Phe Ile Leu Ile Phe Leu Thr Thr Leu	
225	230
Leu Val Gln Met Gly Ile Met Leu Val Val Val Pro Gly Val Leu Leu	
	245
Ala Ile Val Leu Ser Phe Ala Pro Val Met Val Val Gln Asp Lys Leu	
	260
Gly Ile Phe Thr Ala Met Arg Ser Ser Ile Arg Leu Ala Trp Ala Asn	
	265
	270

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<210> 9137
<211> 155
<212> PRT
<213> Enterobacter cloacae
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<210> 9138
<211> 915
<212> PRT
<213> Enterobacter cloacae
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<400> 9138															
Ser	Phe	Val	Leu	Leu	Cys	Val	Thr	Gln	Val	Gly	Ser	Ala	Leu	Thr	Ile
1				5					10					15	
Leu	Ser	Asp	Val	Ser	Ser	Ala	Gly	Leu	Leu	Lys	Glu	Phe	Lys	His	Tyr
			20					25					30		
Gln	Glu	Ser	Ile	Met	Ala	Val	Thr	Asn	Ile	Ala	Glu	Leu	Asn	Ala	Leu
			35				40					45			
Val	Glu	Arg	Val	Lys	Lys	Ala	Gln	Arg	Glu	Tyr	Ala	Asn	Phe	Thr	Gln
	50					55					60				
Glu	Gln	Val	Asp	Lys	Ile	Phe	Arg	Ala	Ala	Ala	Leu	Ala	Ala	Ala	Asp
65				70					75					80	
Ala	Arg	Ile	Pro	Leu	Ala	Lys	Met	Ala	Val	Ala	Glu	Ser	Gly	Met	Gly
				85					90					95	
Ile	Val	Glu	Asp	Lys	Val	Ile	Lys	Asn	His	Phe	Ala	Ser	Glu	Tyr	Ile
			100					105					110		
Tyr	Asn	Ala	Tyr	Lys	Asp	Glu	Lys	Thr	Cys	Gly	Val	Leu	Ser	Glu	Asp
		115					120					125			
Asp	Thr	Phe	Gly	Thr	Ile	Thr	Ile	Ala	Glu	Pro	Ile	Gly	Ile	Ile	Cys
	130					135					140				

Gly	Ile	Val	Pro	Thr	Thr	Asn	Pro	Thr	Ser	Thr	Ala	Ile	Phe	Lys	Ser
145					150				155						160
Leu	Ile	Ser	Leu	Lys	Thr	Arg	Asn	Ala	Ile	Ile	Phe	Ser	Pro	His	Pro
				165					170					175	
Arg	Ala	Lys	Asp	Ala	Thr	Asn	Lys	Ala	Ala	Asp	Ile	Val	Leu	Gln	Ala
			180					185					190		
Ala	Ile	Ala	Ala	Gly	Ala	Pro	Lys	Asp	Leu	Ile	Gly	Trp	Ile	Asp	Gln
		195					200				205				
Pro	Ser	Val	Glu	Leu	Ser	Asn	Ala	Leu	Met	His	His	Pro	Asp	Ile	Asn
	210					215					220				
Leu	Ile	Leu	Ala	Thr	Gly	Gly	Pro	Gly	Met	Val	Lys	Ala	Ala	Tyr	Ser
225					230					235					240
Ser	Gly	Lys	Pro	Ala	Ile	Gly	Val	Gly	Ala	Gly	Asn	Thr	Pro	Val	Val
				245					250					255	
Ile	Asp	Glu	Thr	Ala	Asp	Ile	Lys	Arg	Ala	Val	Ala	Ser	Val	Leu	Met
		260						265					270		
Ser	Lys	Thr	Phe	Asp	Asn	Gly	Val	Ile	Cys	Ala	Ser	Glu	Gln	Ser	Val
		275					280					285			
Val	Val	Val	Asp	Ser	Val	Tyr	Asp	Ala	Val	Arg	Glu	Arg	Phe	Ala	Ser
	290					295					300				
His	Gly	Gly	Tyr	Leu	Leu	Gln	Gly	Lys	Glu	Leu	Lys	Ala	Val	Gln	Asp
305					310					315					320
Val	Ile	Leu	Lys	Asn	Gly	Ala	Leu	Asn	Ala	Ala	Ile	Val	Gly	Gln	Pro
				325					330					335	
Ala	Tyr	Lys	Ile	Ala	Glu	Leu	Ala	Gly	Phe	Ser	Val	Pro	Ala	Thr	Thr
			340					345					350		
Lys	Ile	Leu	Ile	Gly	Glu	Val	Lys	Val	Val	Asp	Glu	Ser	Glu	Pro	Phe
		355					360					365			
Ala	His	Glu	Lys	Leu	Ser	Pro	Thr	Leu	Ala	Met	Tyr	Arg	Ala	Lys	Asp
	370					375					380				
Phe	Asp	Asp	Ala	Val	Glu	Lys	Ala	Glu	Lys	Leu	Val	Ala	Met	Gly	Gly
385					390					395					400
Ile	Gly	His	Thr	Ser	Cys	Leu	Tyr	Thr	Asp	Gln	Asp	Asn	Gln	Pro	Glu
			405						410					415	
Arg	Val	Ala	Tyr	Phe	Gly	Gln	Lys	Met	Lys	Thr	Ala	Arg	Ile	Leu	Ile
			420					425					430		
Asn	Thr	Pro	Ala	Ser	Gln	Gly	Gly	Ile	Gly	Asp	Leu	Tyr	Asn	Phe	Lys
	435					440					445				
Leu	Ala	Pro	Ser	Leu	Thr	Leu	Gly	Cys	Gly	Ser	Trp	Gly	Gly	Asn	Ser
	450					455					460				
Ile	Ser	Glu	Asn	Val	Gly	Pro	Lys	His	Leu	Ile	Asn	Lys	Lys	Thr	Val
465					470					475					480
Ala	Lys	Arg	Ala	Glu	Asn	Met	Leu	Trp	His	Lys	Leu	Pro	Lys	Ser	Ile
			485						490					495	
Tyr	Phe	Arg	Arg	Gly	Ser	Leu	Pro	Ile	Ala	Leu	Asp	Glu	Val	Ile	Thr
			500					505					510		
Asp	Gly	His	Lys	Arg	Ala	Leu	Ile	Val	Thr	Asp	Arg	Phe	Leu	Phe	Asn
	515						520					525			
Asn	Gly	Tyr	Ala	Asp	Gln	Ile	Thr	Ser	Val	Leu	Lys	Ala	Ala	Gly	Val
	530					535					540				
Glu	Thr	Glu	Val	Phe	Phe	Glu	Val	Glu	Ala	Asp	Pro	Thr	Leu	Ser	Val
545					550					555					560
Val	Arg	Lys	Gly	Ala	Glu	Leu	Ala	Asn	Ser	Phe	Lys	Pro	Asp	Val	Ile
			565						570					575	
Ile	Ala	Leu	Gly	Gly	Gly	Ser	Pro	Met	Asp	Ala	Ala	Lys	Ile	Met	Trp
			580					585					590		
Val	Met	Tyr	Glu	His	Pro	Glu	Thr	His	Phe	Glu	Glu	Leu	Ala	Leu	Arg
		595					600					605			
Phe	Met	Asp	Ile	Arg	Lys	Arg	Ile	Tyr	Lys	Phe	Pro	Lys	Met	Gly	Val
	610					615					620				
Lys	Ala	Lys	Met	Ile	Ala	Val	Thr	Thr	Thr	Ser	Gly	Thr	Gly	Ser	Glu

625					630					635				640
Val	Thr	Pro	Phe	Ala	Val	Val	Thr	Asp	Asp	Ala	Thr	Gly	Gln	Lys
				645					650					655
Pro	Leu	Ala	Asp	Tyr	Ala	Leu	Thr	Pro	Asp	Met	Ala	Ile	Val	Asp
			660					665					670	
Asn	Leu	Val	Met	Glu	Met	Pro	Lys	Ser	Leu	Cys	Ala	Phe	Gly	Gly
		675					680					685		Leu
Asp	Ala	Val	Thr	His	Ala	Leu	Glu	Ala	Tyr	Val	Ser	Val	Leu	Ala
	690					695				700				Ser
Glu	Phe	Ser	Asp	Gly	Gln	Ala	Leu	Gln	Ala	Leu	Lys	Leu	Leu	Lys
705				710					715					720
Asn	Leu	Pro	Ala	Ser	Tyr	Asn	Glu	Gly	Ser	Lys	Asn	Pro	Val	Ala
			725						730					735
Glu	Arg	Val	His	Ser	Ala	Ala	Thr	Ile	Ala	Gly	Ile	Ala	Phe	Ala
		740					745						750	Asn
Ala	Phe	Leu	Gly	Val	Cys	His	Ser	Met	Ala	His	Lys	Leu	Gly	Ser
	755						760					765		Gln
Phe	His	Ile	Pro	His	Gly	Leu	Ala	Asn	Ala	Leu	Leu	Ile	Ser	Asn
	770				775					780				Val
Ile	Arg	Tyr	Asn	Ala	Asn	Asp	Asn	Pro	Thr	Lys	Gln	Thr	Ala	Phe
785					790					795				Ser
Gln	Tyr	Asp	Arg	Pro	Gln	Ala	Arg	Arg	Arg	Tyr	Ala	Glu	Ile	Ala
			805					810						815
His	Leu	Gly	Leu	Ser	Ala	Pro	Gly	Asp	Arg	Thr	Ala	Ala	Lys	Ile
		820					825						830	Glu
Lys	Leu	Leu	Ala	Trp	Leu	Glu	Ser	Leu	Lys	Ala	Glu	Leu	Gly	Ile
	835					840					845			Pro
Lys	Ser	Ile	Arg	Glu	Ala	Gly	Val	Gln	Glu	Ala	Asp	Phe	Leu	Ala
	850				855					860				His
Val	Asp	Lys	Leu	Ser	Glu	Asp	Ala	Phe	Asp	Asp	Gln	Cys	Thr	Gly
865					870				875					880
Asn	Pro	Arg	Tyr	Pro	Leu	Ile	Ser	Glu	Leu	Lys	Gln	Ile	Leu	Leu
			885					890						895
Thr	Tyr	Tyr	Ala	Arg	Asn	Phe	Thr	Val	Ala	Asn	Ser	Glu	Arg	Arg
			900					905					910	Ser
Ile	Pro	Asn												
		915												

<210> 9139

<211> 214

<212> PRT

<213> Enterobacter cloacae

<400> 9139

Asn	Arg	Asn	Asp	Ile	Arg	Cys	Pro	Ala	Arg	Pro	Gln	Thr	Gly	Asp	Ile
1				5					10					15	
Ala	Met	Ser	Glu	Asp	Arg	His	Gln	Gln	Arg	Gln	Gln	Arg	Leu	Lys	Glu
			20					25					30		
Gln	Val	Asp	Ala	Arg	Val	Ala	Ala	Ala	Gln	Asp	Glu	Arg	Gly	Ile	Leu
		35				40						45			
Ile	Val	Phe	Thr	Gly	Asn	Gly	Lys	Gly	Lys	Thr	Thr	Ala	Ala	Phe	Gly
	50				55					60					
Thr	Ala	Thr	Arg	Ala	Val	Gly	His	Gly	Gln	Lys	Val	Gly	Val	Ile	Gln
65				70					75						80
Phe	Ile	Lys	Gly	Glu	Trp	Pro	Asn	Gly	Glu	Arg	Asn	Leu	Leu	Glu	Pro
			85					90						95	
His	Gly	Val	Glu	Phe	Gln	Val	Met	Ala	Thr	Gly	Phe	Thr	Trp	Asp	Thr
		100					105						110		
Gln	Asn	Arg	Glu	Thr	Asp	Thr	Ala	Ala	Cys	Leu	Ala	Val	Trp	Glu	His
	115					120						125			
Ala	Lys	Arg	Met	Leu	Ser	Asp	Pro	Ser	Leu	Asn	Met	Val	Leu	Leu	Asp

130		135		140
Glu Ile Thr Tyr Met Val Ala Tyr Asp Tyr Leu Ser Leu Glu Ala Val				
145		150		155
Leu Ala Ala Leu Lys Asn Arg Pro Ala His Gln Thr Val Ile Val Thr				160
	165		170	
Gly Arg Gly Cys His Arg Asp Ile Leu Glu Leu Ala Asp Thr Val Ser				175
	180		185	190
Glu Leu Arg Pro Val Lys His Ala Phe Asp Ala Gly Ile Lys Ala Gln				
	195	200		205
Ile Gly Ile Asp Tyr				
210				

<210> 9140

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 9140

Asn Ser Gly Glu Cys Arg Met Lys Glu Ile Val Pro Asp Tyr Arg Leu				
1	5		10	15
Asp Met Val Gly Glu Pro Cys Pro Tyr Pro Ala Val Ala Thr Leu Glu				
	20		25	30
Ala Leu Pro Gln Leu Lys Lys Gly Glu Ile Leu Glu Val Val Ser Asp				
	35	40	45	
Cys Pro Gln Ser Ile Asn Asn Ile Pro Leu Asp Ala Lys Asn His Gly				
	50	55	60	
Tyr Thr Val Leu Asp Ile Gln Gln Asp Gly Pro Thr Ile Arg Tyr Leu				
65	70		75	80
Ile Gln Lys				

<210> 9141

<211> 188

<212> PRT

<213> Enterobacter cloacae

<400> 9141

Phe Val Ser Asn Trp Asp Arg Arg Met Lys Gln Phe Leu Asp Phe Leu				
1	5		10	15
Pro Leu Ile Val Phe Phe Ala Phe Tyr Lys Leu Tyr Asp Ile Tyr Ala				
	20		25	30
Gly Thr Leu Ala Leu Ile Val Ala Thr Ala Val Val Leu Ile Tyr Ser				
	35	40	45	
Trp Val Arg Tyr Arg Lys Val Glu Lys Met Ala Leu Ile Thr Phe Leu				
	50	55	60	
Met Val Ala Val Phe Gly Gly Leu Thr Leu Phe Phe His Asn Asp Glu				
65	70	75		80
Phe Ile Lys Trp Lys Val Thr Val Ile Tyr Gly Leu Phe Ala Gly Ala				
	85	90		95
Leu Leu Ile Ser Gln Trp Val Met Lys Lys Pro Leu Ile Gln Arg Met				
	100	105	110	
Leu Gly Lys Glu Leu Thr Leu Pro Gln Ala Val Trp Gly Arg Leu Asn				
	115	120	125	
Ile Ala Trp Ala Leu Phe Phe Ile Leu Cys Gly Leu Ala Asn Ile Tyr				
	130	135	140	
Ile Ala Phe Trp Leu Pro Gln Asn Ile Trp Val Asn Phe Lys Val Phe				
145	150	155		160
Gly Leu Thr Ala Leu Thr Leu Ile Phe Thr Leu Leu Ser Gly Val Tyr				
	165	170		175
Ile Tyr Arg His Met Pro Gln Asp Asp Lys His				
	180	185		

<210> 9142

<211> 684

<212> PRT

<213> Enterobacter cloacae

<400> 9142

Ala	Leu	Lys	Gln	Gln	Pro	Gly	Val	Ser	Ile	Ile	Thr	Ala	Lys	Asp	Ile
1				5					10					15	
Glu	Lys	Asp	Pro	Pro	Val	Asn	Asp	Leu	Ser	Glu	Ile	Ile	Arg	Lys	Met
			20					25					30		
Pro	Gly	Val	Asn	Leu	Thr	Gly	Asn	Ser	Ala	Thr	Gly	Ser	Arg	Gly	Asn
			35				40					45			
Asn	Arg	Gln	Ile	Asp	Ile	Arg	Gly	Met	Gly	Pro	Glu	Asn	Thr	Leu	Ile
			50			55					60				
Leu	Ile	Asp	Gly	Val	Pro	Val	Thr	Ser	Arg	Asn	Ser	Val	Arg	Tyr	Ser
65					70					75					80
Trp	Arg	Gly	Glu	Arg	Asp	Thr	Arg	Gly	Asp	Thr	Asn	Trp	Val	Pro	Pro
				85					90					95	
Glu	Met	Val	Glu	Arg	Ile	Glu	Val	Leu	Arg	Gly	Pro	Ala	Ala	Ala	Arg
			100					105					110		
Tyr	Gly	Ser	Gly	Ala	Ala	Gly	Gly	Val	Val	Asn	Ile	Ile	Thr	Lys	Arg
			115				120					125			
Pro	Thr	Asn	Asp	Trp	His	Gly	Ser	Leu	Ser	Leu	Tyr	Thr	Asn	Gln	Pro
						135					140				
Glu	Asn	Asp	Lys	Glu	Gly	Ala	Thr	Lys	Arg	Ala	Asn	Phe	Asp	Leu	Ser
145					150					155					160
Gly	Pro	Leu	Ala	Gly	Asp	Ala	Leu	Thr	Met	Arg	Leu	Tyr	Gly	Asn	Ile
				165					170					175	
Asn	Lys	Thr	Asp	Ala	Asp	Ala	Gln	Asp	Ile	Asn	Thr	Ala	Gln	Asn	Gly
			180					185					190		
Ser	Tyr	Ala	Ala	Gly	Arg	Glu	Gly	Val	Arg	Asn	Lys	Asp	Ile	Asn	Ala
			195				200					205			
Leu	Leu	Ser	Trp	Lys	Leu	Thr	Pro	Gln	Gln	Ile	Ile	Asp	Phe	Asp	Tyr
			210			215					220				
Ser	Tyr	Ser	Arg	Gln	Gly	Asn	Ile	Tyr	Ala	Gly	Asp	Thr	Gln	Tyr	Ser
225					230					235					240
Asn	Ser	Asn	Val	Ser	Pro	Asp	Gly	Leu	Val	Ser	Ser	Leu	Tyr	Gly	His
				245					250					255	
Glu	Thr	Asn	Arg	Met	Tyr	Arg	Gln	Ser	Tyr	Gly	Ile	Thr	His	Asn	Gly
			260					265					270		
Ile	Trp	Asp	Trp	Gly	Gln	Ser	Lys	Phe	Gly	Val	Tyr	Tyr	Glu	Lys	Thr
			275				280					285			
Asn	Asn	Thr	Arg	Leu	Glu	Glu	Gly	Ser	Thr	Gly	Lys	Val	Glu	Gly	Met
					295						300				
Ile	Asn	Ser	Asp	Lys	Tyr	Asp	Thr	Ser	Arg	Leu	Glu	Ser	Tyr	Arg	Ser
305					310					315					320
Thr	Gly	Glu	Leu	Asn	Ile	Pro	Phe	Phe	Trp	Leu	Val	Glu	Gln	Thr	Leu
				325					330					335	
Thr	Val	Gly	Ala	Glu	Trp	Asn	Arg	Asp	Glu	Leu	Asn	Asp	Pro	Ala	Ser
			340					345					350		
Met	Gln	Ala	Thr	Asn	Val	Ser	Gly	Glu	Val	Ile	Asn	Gly	Val	Pro	Gly
			355				360					365			
Thr	Ala	Ser	Glu	Arg	Asn	Ser	Lys	Asn	Ser	Ala	Asp	Leu	Thr	Gly	Ile
			370			375					380				
Tyr	Leu	Glu	Asp	Asn	Ile	Glu	Ala	Arg	Gln	Gly	Thr	Asn	Leu	Ile	Pro
385					390					395					400
Gly	Ile	Arg	Phe	Asp	Tyr	His	Asn	Gln	Phe	Gly	Ser	Asn	Trp	Ser	Pro
				405					410					415	
Ser	Leu	Asn	Val	Ser	Gln	Asp	Leu	Gly	Asp	Met	Phe	Lys	Val	Lys	Ala
			420					425					430		

Gly Ile Ala Arg Val Phe Lys Ala Pro Asn Leu Tyr Gln Ser Ser Glu
 435 440 445
 Gly Tyr Leu Leu Ser Thr Arg Gly Asn Gly Cys Pro Asn Asn Val Ser
 450 455 460
 Glu Gly Ser Cys Tyr Leu Leu Gly Asn Pro Asp Leu Asp Pro Glu Ile
 465 470 475 480
 Ser Val Asn Lys Glu Ile Gly Leu Ala Phe Ala Leu Glu Gly Tyr Glu
 485 490 495
 Ala Gly Ile Thr Trp Phe Arg Asn Asp Tyr Lys Asn Lys Ile Val Ser
 500 505 510
 Gly Thr Asp Val Leu Gly Gln Thr Ser Ser Gly Ala Asn Ile Leu Gln
 515 520 525
 Trp Gln Asn Gly Gly Lys Ala Val Val Glu Gly Leu Glu Gly Asn Leu
 530 535 540
 Thr Val Pro Val Ile Arg Asp Thr Leu Thr Trp Arg Thr Asn Ala Thr
 545 550 555 560
 Tyr Met Ile Gln Ser Lys Ser Lys Asp Thr Gly Asn Pro Leu Ser Ile
 565 570 575
 Ile Pro Lys Tyr Thr Val Asn Thr Met Leu Asp Trp Glu Val Asn Ser
 580 585 590
 Lys Leu Ser Ala Asn Val Ser Trp Thr Met Tyr Gly Arg Gln Lys Pro
 595 600 605
 Arg Glu Asn Ala Glu Ile Arg Lys Glu Glu Asn Ala Met Ser Asn Arg
 610 615 620
 Glu Ile Gly Ala Tyr Ser Ile Val Gly Ile Gly Ser Asn Tyr Gln Leu
 625 630 635 640
 Thr Lys Asn Leu Arg Leu Asn Ala Gly Ile Ser Asn Leu Phe Asp Lys
 645 650 655
 Gln Ile Tyr Arg Glu Asn Asp Gly Ala Ser Thr Tyr Asn Glu Pro Gly
 660 665 670
 Arg Ala Tyr Tyr Ala Gly Val Thr Leu Ser Phe
 675 680

<210> 9143

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 9143

Arg Asn Cys His Phe Tyr Arg Leu Arg Ser Phe Ala Val Leu Tyr Val
 1 5 10 15
 Ile Tyr Ala Glu Asp Val Pro Asp Ser Leu Glu Lys Arg Leu Ser Val
 20 25 30
 Arg Pro Ala His Leu Ala Arg Leu Gln Leu Leu Gln Asp Glu Gly Arg
 35 40 45
 Leu Leu Thr Ala Gly Pro Met Pro Ala Val Asp Ser Asn Asp Pro Gly
 50 55 60
 Ala Ala Gly Phe Thr Gly Ser Ala Val Ile Ala Glu Phe Glu Ser Leu
 65 70 75 80
 Glu Ala Ala Gln Ala Trp Ala Glu Ala Asp Pro Tyr Val Ala Ala Gly
 85 90 95
 Val Tyr Glu Lys Val Thr Val Arg Pro Tyr Lys Lys Val Phe
 100 105 110

<210> 9144

<211> 504

<212> PRT

<213> Enterobacter cloacae

<400> 9144

Ile Leu Met Arg Lys Leu Ile Thr Ile Arg Phe Gln Lys Asp Phe Leu

1				5				10				15		
Phe	Met	Thr	Thr	Phe	Tyr	Thr	Val	Val	Ser	Trp	Leu	Val	Ile	Gly
			20					25					30	
Tyr	Trp	Leu	Leu	Ile	Ala	Gly	Val	Thr	Leu	Arg	Ile	Leu	Met	Arg
		35					40					45		
Arg	Ala	Val	Pro	Ser	Ala	Met	Ala	Trp	Leu	Leu	Ile	Ile	Tyr	Leu
	50					55					60			
Pro	Leu	Val	Gly	Ile	Ile	Ala	Tyr	Leu	Ser	Phe	Gly	Glu	Leu	His
65				70					75					80
Gly	Lys	Arg	Arg	Ala	Glu	Arg	Ala	Arg	Ala	Met	Trp	Pro	Ser	Thr
			85					90						95
Lys	Trp	Leu	Ala	Asp	Leu	Lys	Ala	Cys	Lys	His	Ile	Phe	Ala	Glu
			100					105					110	
Asn	Ser	Ser	Val	Ala	Ala	Ser	Leu	Phe	Lys	Leu	Cys	Glu	Arg	Gln
		115					120					125		
Gly	Ile	Ala	Gly	Val	Lys	Gly	Asn	Gln	Leu	Gln	Leu	Met	Thr	Ser
	130					135					140			
Asp	Asp	Val	Met	Gln	Ala	Leu	Ile	Arg	Asp	Ile	Gln	Leu	Ala	Arg
145				150					155					160
Asn	Ile	Glu	Met	Val	Phe	Tyr	Ile	Trp	Gln	Pro	Gly	Gly	Met	Ala
			165					170						175
Gln	Val	Ala	Glu	Ser	Leu	Met	Ala	Ala	Arg	Arg	Gly	Ile	His	Cys
		180					185					190		
Arg	Leu	Met	Leu	Asp	Ser	Ala	Gly	Ser	Val	Ala	Phe	Phe	Arg	Ser
	195					200					205			
Trp	Ala	Gly	Met	Met	Arg	Asn	Ala	Gly	Ile	Glu	Val	Val	Glu	Ala
	210					215				220				
Lys	Val	Asn	Leu	Phe	Arg	Val	Phe	Leu	Arg	Arg	Met	Asp	Leu	Gln
225				230					235					240
His	Arg	Lys	Met	Val	Leu	Ile	Asp	Asn	Tyr	Ile	Ala	Tyr	Thr	Gly
			245					250						255
Met	Asn	Met	Val	Asp	Pro	Arg	Phe	Phe	Lys	Gln	Asp	Ser	Gly	Val
	260						265						270	
Gln	Trp	Ile	Asp	Leu	Met	Ala	Arg	Met	Glu	Gly	Pro	Ile	Ala	Thr
	275					280					285			
Met	Gly	Ile	Val	Tyr	Ser	Cys	Asp	Trp	Glu	Ile	Glu	Thr	Gly	Lys
	290					295					300			
Ile	Leu	Pro	Pro	Pro	Pro	Asp	Gly	Asn	Ile	Met	Pro	Phe	Glu	Glu
305				310					315					320
Ser	Gly	His	Thr	Ile	His	Thr	Ile	Ala	Ser	Gly	Pro	Gly	Phe	Pro
			325					330						335
Asp	Leu	Ile	His	Gln	Ala	Leu	Leu	Thr	Ala	Ala	Tyr	Ser	Ala	Arg
	340							345					350	
Tyr	Leu	Ile	Met	Thr	Thr	Pro	Tyr	Phe	Val	Pro	Ser	Asp	Asp	Leu
	355						360					365		
His	Ala	Ile	Cys	Thr	Ala	Ala	Gln	Arg	Gly	Val	Asp	Val	Ser	Ile
	370					375					380			
Met	Pro	Arg	Lys	Asn	Asp	Ser	Leu	Leu	Val	Gly	Trp	Ala	Ser	Arg
385				390					395					400
Phe	Phe	Ser	Glu	Leu	Leu	Ala	Ala	Gly	Val	Lys	Ile	Tyr	Gln	Phe
			405					410						415
Gly	Gly	Leu	Leu	His	Thr	Lys	Ser	Val	Leu	Val	Asp	Gly	Glu	Leu
		420						425				430		
Leu	Val	Gly	Thr	Val	Asn	Leu	Asp	Met	Arg	Ser	Leu	Trp	Leu	Asn
	435						440				445			
Glu	Ile	Thr	Leu	Val	Ile	Asp	Asp	Ala	Gly	Phe	Gly	Gly	Asp	Leu
	450					455					460			
Ala	Val	Gln	Asp	Asp	Tyr	Ile	Ser	Arg	Ser	Arg	Leu	Leu	Asp	Ala
465				470					475					480
Leu	Trp	Ala	Lys	Arg	Pro	Leu	Trp	Gln	Arg	Ile	Ala	Glu	Arg	Leu
			485					490						495

Tyr Phe Phe Ser Pro Leu Leu
500

<210> 9145

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 9145

Gln	Val	Val	Ile	Met	Glu	Met	Asp	Leu	Asn	Asn	Arg	Leu	Thr	Glu	Asp
1				5					10					15	
Glu	Thr	Leu	Glu	Gln	Ala	Tyr	Asp	Ile	Phe	Leu	Glu	Leu	Ala	Val	Asp
			20					25					30		
Asn	Leu	Asp	Pro	Ala	Asp	Val	Ile	Leu	Phe	Asn	Leu	Gln	Phe	Glu	Glu
		35					40					45			
Arg	Gly	Gly	Ala	Glu	Leu	Phe	Asp	Pro	Ser	Glu	Asp	Trp	Ala	Glu	His
	50					55					60				
Val	Asp	Phe	Asp	Leu	Asn	Pro	Asp	Phe	Phe	Ala	Glu	Val	Val	Ile	Gly
65					70					75				80	
Leu	Ala	Asp	Glu	Asp	Gly	Gly	Glu	Ile	Asn	Asp	Ile	Phe	Ala	Arg	Val
				85					90					95	
Leu	Leu	Cys	Arg	Glu	Lys	Asp	His	Lys	Leu	Cys	His	Ile	Leu	Trp	Arg
			100					105					110		

Glu

<210> 9146

<211> 218

<212> PRT

<213> Enterobacter cloacae

<400> 9146

Ser	Asn	Thr	Glu	Ser	Ile	Met	Gly	Gln	Arg	His	Glu	Thr	Cys	Gln	Pro
1				5					10					15	
Gly	Leu	Asp	Asn	His	Met	Gln	Leu	Lys	Arg	Val	Ala	Glu	Ala	Lys	Leu
			20					25					30		
Pro	Thr	Pro	Trp	Gly	Asp	Phe	Leu	Met	Val	Gly	Phe	Glu	Glu	Leu	Ala
		35					40					45			
Thr	Gly	Gln	Asp	His	Val	Ala	Leu	Val	Phe	Gly	Asp	Ile	Ser	Gly	Gln
	50					55					60				
Thr	Pro	Val	Leu	Ser	Arg	Val	His	Ser	Glu	Cys	Leu	Thr	Gly	Asp	Ala
65					70					75				80	
Leu	Phe	Ser	Leu	Arg	Cys	Asp	Cys	Gly	Phe	Gln	Leu	Glu	Ala	Ala	Leu
				85					90					95	
Ser	His	Ile	Ala	Glu	Glu	Gly	Arg	Gly	Val	Leu	Leu	Tyr	His	Arg	Gln
			100					105					110		
Glu	Gly	Arg	Asn	Ile	Gly	Leu	Leu	Asn	Lys	Ile	Arg	Ala	Tyr	Ala	Leu
		115					120					125			
Gln	Asp	Gln	Gly	Tyr	Asp	Thr	Val	Glu	Ala	Asn	His	Gln	Leu	Gly	Phe
	130					135					140				
Ala	Ala	Asp	Glu	Arg	Asp	Phe	Thr	Leu	Cys	Ala	Asp	Met	Phe	Lys	Leu
145					150					155				160	
Leu	Gly	Val	Asp	Glu	Val	Arg	Leu	Leu	Thr	Asn	Asn	Pro	Lys	Lys	Val
				165					170					175	
Glu	Ile	Leu	Thr	Glu	Ala	Gly	Ile	Asn	Ile	Val	Glu	Arg	Val	Pro	Leu
			180					185					190		
Ile	Val	Gly	Arg	Asn	Pro	Lys	Asn	Ala	His	Tyr	Leu	Asp	Thr	Lys	Ala
		195					200					205			
Ala	Lys	Met	Gly	His	Leu	Leu	Ser	Glu							
	210						215								

<210> 9147
 <211> 257
 <212> PRT
 <213> Enterobacter cloacae

<400> 9147

Gly	Ala	Thr	Val	His	Tyr	Gln	Pro	Gln	Lys	Asn	Leu	Leu	Gln	Asn	Arg
1				5					10					15	
Ile	Ile	Leu	Val	Thr	Gly	Ala	Ser	Asp	Gly	Ile	Gly	Arg	Glu	Ala	Ala
			20					25					30		
Leu	Thr	Tyr	Ser	Glu	Tyr	Gly	Ala	Ser	Leu	Ile	Leu	Leu	Gly	Arg	Asn
		35					40					45			
Glu	Glu	Lys	Leu	Lys	Ala	Val	Ala	Arg	Glu	Ile	Glu	Asn	Ala	Gly	Gly
	50					55					60				
Thr	Pro	Thr	Pro	Trp	Tyr	Thr	Leu	Asp	Leu	Leu	Thr	Cys	Thr	Pro	Ala
65					70						75				80
Ser	Cys	Gln	Ala	Ile	Ala	Gln	Arg	Ile	Ser	Thr	His	Tyr	Pro	Arg	Leu
				85					90					95	
Asp	Gly	Val	Leu	His	Asn	Ala	Gly	Leu	Leu	Gly	Glu	Val	Arg	Pro	Met
			100					105					110		
Asp	Glu	Gln	Asp	Pro	Glu	Ile	Trp	Gln	Gln	Val	Met	Gln	Val	Asn	Val
		115					120					125			
Asn	Gly	Thr	Phe	Phe	Leu	Thr	Gln	Ala	Leu	Leu	Pro	Leu	Leu	Leu	Asn
		130				135						140			
Ser	Asp	Ser	Gly	Ser	Leu	Val	Phe	Thr	Ser	Ser	Ser	Val	Gly	Arg	Gln
145					150						155				160
Gly	Arg	Ala	Asn	Trp	Gly	Ala	Tyr	Ala	Val	Ser	Lys	Phe	Ala	Thr	Glu
				165					170					175	
Gly	Met	Met	Gln	Val	Leu	Ala	Glu	Glu	Tyr	Gln	Ser	Arg	His	Leu	Arg
			180					185					190		
Val	Asn	Cys	Ile	Asn	Pro	Gly	Gly	Thr	Arg	Thr	Lys	Met	Arg	Ala	Ser
		195					200					205			
Ala	Phe	Pro	Thr	Glu	Asp	Pro	Gln	Lys	Leu	Lys	Thr	Pro	Ala	Asp	Ile
		210				215						220			
Met	Pro	Leu	Tyr	Leu	Trp	Leu	Met	Gly	Asp	Asp	Ser	Arg	Arg	Lys	Thr
225					230					235					240
Gly	Met	Thr	Phe	Asp	Ala	Gln	Pro	Gly	Arg	Lys	Pro	Gly	Ile	Ser	Gln
				245					250					255	

<210> 9148
 <211> 551
 <212> PRT
 <213> Enterobacter cloacae

<400> 9148

Ser	Ala	Arg	Gly	Thr	Ala	Arg	His	Cys	Tyr	Arg	Thr	Pro	Cys	Thr	Gly
1				5					10					15	
Asp	Phe	Leu	Met	Ala	Asp	Ile	Leu	Leu	Leu	Asp	Asn	Ile	Asp	Ser	Phe
			20					25					30		
Thr	Tyr	Asn	Leu	Ala	Asp	Gln	Leu	Arg	Ala	Asn	Gly	His	Asn	Val	Val
		35				40						45			
Ile	Tyr	Arg	Asn	His	Val	Pro	Ala	Gln	Thr	Leu	Ile	Asp	Arg	Leu	Ala
	50					55					60				
Thr	Met	Gln	Asn	Pro	Val	Leu	Met	Leu	Ser	Pro	Gly	Pro	Gly	Ala	Pro
65					70					75					80
Ser	Glu	Ala	Gly	Cys	Met	Pro	Glu	Leu	Leu	Thr	Arg	Met	Arg	Gly	Lys
				85					90					95	
Leu	Pro	Ile	Ile	Gly	Ile	Cys	Leu	Gly	His	Gln	Ala	Ile	Val	Glu	Ala
			100					105					110		

Tyr Gly Gly Tyr Val Gly Gln Ala Gly Glu Ile Leu His Gly Lys Ala
 115 120 125
 Ser Ser Ile Glu His Asp Gly Gln Ala Met Phe Ala Gly Leu Pro Asn
 130 135 140
 Pro Leu Pro Val Ala Arg Tyr His Ser Leu Val Gly Ser Asn Ile Pro
 145 150 155 160
 Ala Gly Leu Thr Ile Asn Ala Ser Phe Glu Gly Met Val Met Ala Val
 165 170 175
 Arg His Asp Ala Asp Arg Val Cys Gly Met Gln Phe His Pro Glu Ser
 180 185 190
 Ile Leu Thr Ser Asn Gly Gly Arg Leu Leu Glu Gln Thr Leu Asp Trp
 195 200 205
 Ala Leu Gln Lys Leu Glu Gln Thr Asn Thr Leu Gln Pro Ile Leu Glu
 210 215 220
 Lys Leu Tyr Gln Ala Gln Thr Leu Ser Gln Gln Glu Ser His Gln Leu
 225 230 235 240
 Phe Ser Ala Val Val Arg Gly Glu Leu Lys Pro Glu Gln Leu Ala Ala
 245 250 255
 Ala Leu Val Ser Met Lys Val Arg Gly Glu Ser Pro Gln Glu Ile Ala
 260 265 270
 Gly Ala Ala Thr Ala Leu Leu Glu Asn Ala Ala Pro Phe Pro Arg Pro
 275 280 285
 Asp Tyr Pro Phe Ala Asp Ile Val Gly Thr Gly Gly Asp Gly Ser Asn
 290 295 300
 Ser Ile Asn Ile Ser Thr Ala Ser Ala Phe Val Ala Ala Cys Gly
 305 310 315 320
 Leu Lys Val Ala Lys His Gly Asn Arg Ser Val Ser Ser Arg Ser Gly
 325 330 335
 Ser Ser Asp Leu Leu Ala Ala Phe Gly Ile Asn Leu Asp Met Asn Ala
 340 345 350
 Glu Arg Ser Arg Glu Ala Leu Asp Leu Gly Val Cys Phe Leu Phe
 355 360 365
 Ala Pro Lys Tyr His Thr Gly Phe Arg His Ala Met Pro Val Arg Gln
 370 375 380
 Gln Leu Lys Thr Arg Thr Leu Phe Asn Val Leu Gly Pro Leu Ile Asn
 385 390 395 400
 Pro Ala His Pro Pro Leu Ala Leu Ile Gly Val Tyr Ser Pro Glu Leu
 405 410 415
 Val Leu Pro Ile Ala Glu Thr Leu Arg Val Leu Gly Tyr Gln Arg Ala
 420 425 430
 Ala Val Val His Ser Gly Gly Met Asp Glu Val Ser Leu His Ala Pro
 435 440 445
 Thr Leu Val Ala Glu Leu Asn His Gly Glu Val Leu Asn Tyr Gln Leu
 450 455 460
 Glu Ala Ala Asp Phe Gly Leu Thr Pro Tyr His Gln Asp Ala Leu Ala
 465 470 475 480
 Gly Gly Thr Pro Glu Asn Arg Asp Ile Leu Thr Arg Leu Leu Gln
 485 490 495
 Gly Lys Gly Glu Ala Ala His Glu Ala Ala Val Ala Ala Asn Val Ala
 500 505 510
 Met Leu Met Arg Leu His Gly Glu Glu Asp Leu Lys Ala Asn Ala Gln
 515 520 525
 Lys Val Leu Ala Val Leu Arg Ser Gly Ala Ala Tyr Asp Arg Val Thr
 530 535 540
 Ala Leu Ala Ala Arg Gly
 545 550

<210> 9149

<211> 454

<212> PRT

<213> Enterobacter cloacae

<210> 9150
 <211> 287
 <212> PRT
 <213> Enterobacter cloacae

<400> 9150

Gln	Arg	Tyr	Leu	His	Arg	Ser	Arg	Tyr	Ser	Glu	Ser	Thr	Arg	Gly	Asn	
1				5					10					15		
Leu	Met	Glu	Arg	Tyr	Asp	Asn	Ala	Phe	Ala	Gln	Leu	Lys	Ala	Arg	Gln	
		20						25					30			
Glu	Gly	Ala	Phe	Val	Pro	Phe	Val	Thr	Leu	Gly	Asp	Pro	Gly	Pro	Glu	
		35					40					45				
Gln	Ser	Leu	Lys	Ile	Ile	Asp	Thr	Leu	Ile	Asp	Ala	Gly	Ala	Asp	Ala	
	50					55					60					
Leu	Glu	Leu	Gly	Ile	Pro	Phe	Ser	Asp	Pro	Leu	Ala	Asp	Gly	Pro	Thr	
65					70					75					80	
Ile	Gln	Asn	Ala	Thr	Leu	Arg	Ala	Phe	Ala	Ala	Gly	Val	Thr	Pro	Gly	
				85					90					95		
Gln	Cys	Phe	Glu	Met	Leu	Ala	Ala	Ile	Arg	Gln	Lys	His	Pro	Thr	Ile	
			100					105					110			
Pro	Ile	Gly	Leu	Leu	Met	Tyr	Ala	Asn	Leu	Val	Phe	Ser	Arg	Gly	Ile	
		115					120						125			
Asp	Ala	Phe	Tyr	Ala	Glu	Cys	Ala	Arg	Val	Gly	Val	Asp	Ser	Val	Leu	
	130					135					140					
Val	Ala	Asp	Val	Pro	Val	Glu	Glu	Ser	Ala	Pro	Phe	Arg	Gln	Ala	Ala	
145					150					155					160	
Met	Arg	His	Asn	Val	Ala	Pro	Ile	Phe	Ile	Cys	Pro	Pro	Asn	Ala	Asp	
				165					170					175		
Asp	Asp	Leu	Leu	Arg	Gln	Ile	Ala	Ser	Tyr	Gly	Arg	Gly	Tyr	Thr	Tyr	
		180						185					190			
Leu	Leu	Ser	Arg	Ala	Gly	Val	Thr	Gly	Ala	Glu	Asn	Lys	Ala	Ala	Leu	
		195					200					205				
Pro	Leu	His	His	Leu	Val	Glu	Lys	Leu	Ala	Glu	Tyr	His	Ala	Ala	Pro	
	210					215					220					
Pro	Leu	Gln	Gly	Phe	Gly	Ile	Ser	Ser	Pro	Asp	Gln	Val	Thr	Ala	Ala	
225					230					235					240	
Ile	Asp	Ala	Lys	Ala	Ala	Gly	Ala	Ile	Ser	Gly	Ser	Ala	Ile	Val	Lys	
				245					250					255		
Ile	Ile	Glu	Lys	Asn	Val	Asp	Lys	Pro	Gln	Gln	Met	Leu	Ala	Glu	Leu	
			260					265					270			
His	Ala	Phe	Val	Thr	Ser	Met	Lys	Ala	Ala	Thr	Arg	Lys	Ala			
		275					280					285				

<210> 9151
 <211> 409
 <212> PRT
 <213> Enterobacter cloacae

<400> 9151

Val	Gln	Arg	Leu	Phe	Met	Ser	Trp	Tyr	Ser	Phe	Lys	Gln	Thr	Tyr	Leu	
1				5					10					15		
Val	Lys	Phe	Trp	Ser	Pro	Val	Pro	Ala	Val	Ile	Ala	Ala	Gly	Ile	Leu	
			20					25					30			
Ser	Thr	Tyr	Tyr	Phe	Gly	Ile	Thr	Gly	Thr	Phe	Trp	Ala	Val	Thr	Gly	
		35					40					45				
Glu	Phe	Thr	Arg	Trp	Gly	Gly	Gln	Leu	Leu	Gln	Leu	Ala	Gly	Val	His	
	50					55					60					
Ala	Glu	Glu	Trp	Gly	Tyr	Phe	Lys	Leu	Ile	His	Leu	Glu	Gly	Thr	Pro	
65					70					75					80	
Leu	Thr	Arg	Ile	Asp	Gly	Met	Met	Ile	Ile	Gly	Met	Phe	Gly	Gly	Cys	
				85					90					95		

Phe Ala Ala Ala Leu Trp Ala Asn Asn Val Lys Leu Arg Met Pro Lys
 100 105 110
 Ser Arg Ile Arg Ile Met Gln Ala Val Val Gly Gly Ile Ala Gly
 115 120 125
 Phe Gly Ala Arg Leu Ala Met Gly Cys Asn Leu Ala Ala Phe Phe Thr
 130 135 140
 Gly Ile Pro Gln Phe Ser Leu His Ala Trp Phe Phe Ala Val Ala Thr
 145 150 155 160
 Ala Ile Gly Ser Tyr Phe Gly Ala Lys Phe Thr Leu Leu Pro Leu Phe
 165 170 175
 Arg Ile Pro Val Lys Met Thr Lys Val Ser Ala Ala Ser Pro Leu Thr
 180 185 190
 Gln Lys Pro Asp Gln Ala Arg Arg Arg Phe Arg Leu Gly Met Leu Val
 195 200 205
 Phe Phe Ala Met Val Ala Trp Ala Ile Cys Thr Ala Met Asn Gln Pro
 210 215 220
 Lys Leu Gly Leu Ala Met Leu Phe Gly Val Gly Phe Gly Leu Leu Ile
 225 230 235 240
 Glu Arg Ala Gln Ile Cys Phe Thr Ser Ala Phe Arg Asp Met Trp Ile
 245 250 255
 Thr Gly Arg Thr Met Met Ala Lys Ala Ile Ile Ala Gly Met Ala Val
 260 265 270
 Ser Ala Ile Gly Ile Phe Ser Tyr Val Gln Leu Gly Val Glu Pro Lys
 275 280 285
 Ile Met Trp Ala Gly Pro Asn Ala Val Ile Gly Gly Leu Leu Phe Gly
 290 295 300
 Phe Gly Ile Val Leu Ala Gly Gly Cys Glu Thr Gly Trp Met Tyr Arg
 305 310 315 320
 Ala Val Glu Gly Gln Val His Tyr Trp Trp Val Gly Leu Gly Asn Val
 325 330 335
 Ile Gly Ser Thr Leu Leu Ala Cys Tyr Trp Asp Asp Val Ser Pro Val
 340 345 350
 Leu Ala Thr Asn Trp Asp Lys Val Asn Leu Leu Lys Thr Phe Gly Pro
 355 360 365
 Leu Gly Gly Leu Leu Val Thr Tyr Ala Leu Leu Leu Ile Ala Phe Leu
 370 375 380
 Leu Val Val Ala Gln Glu Lys Arg Phe Phe Arg Arg Ala Thr Ala Lys
 385 390 395 400
 Thr Glu Thr Gln Glu Asn Ala Ala
 405

<210> 9152

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 9152

Phe Asp Ala Phe Tyr Phe Cys Arg Cys Ala Met Ser Asp His Asn Pro
 1 5 10 15
 Cys Met Thr Cys Gly Ala Cys Cys Ala Tyr Phe Arg Val Ser Phe Tyr
 20 25 30
 Trp Ala Glu Ala Ser Asp Gly Gly Gly Thr Val Pro Val Asp Leu Thr
 35 40 45
 Glu Pro Leu Thr Pro Phe Leu Arg Cys Met Arg Gly Thr Asn Gln Lys
 50 55 60
 Gln Ser Arg Cys Val Ala Leu Glu Gly Glu Pro Gly Val Ser Thr Arg
 65 70 75 80
 Cys Ser Ile Tyr Ala Asp Arg Pro Ser Pro Cys Arg Thr Phe Ala Met
 85 90 95
 Ser Gly Glu Asp Gly Gln Val Asn Glu Ala Cys Asn Arg Ala Arg Ala
 100 105 110

Arg	Tyr	Gly	Leu	Pro	Pro	Leu	Tyr	Lys	Asp	Met	Leu	Phe	His	Thr	Ser
		115					120					125			
Leu	Asp	Ala	Ala	Thr	Ser	Val	Leu	Ser	Gly	Val	Gln	Leu	Pro	Ala	Asn
	130					135					140				

145

<210> 9153

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 9153

His	Ala	Val	Ser	Pro	Trp	Thr	Cys	Ser	Ile	Ala	Glu	Leu	Asn	Val	Ile
1				5					10					15	
Gln	Thr	Leu	Phe	Asp	Phe	Pro	Thr	Tyr	Phe	Lys	Phe	Phe	Ile	Gly	Leu
		20						25					30		
Phe	Ala	Leu	Val	Asn	Pro	Val	Gly	Ile	Ile	Pro	Val	Phe	Ile	Ser	Met
		35					40					45			
Thr	Ser	Tyr	Gln	Thr	Ala	Ala	Arg	Asn	Lys	Thr	Asn	Leu	Thr	Ala	
	50					55				60					
Asn	Leu	Ser	Trp	Arg	Phe	Ile	Ile	Leu	Ser	Ser	Leu	Tyr	Leu	Gly	Asn
65				70					75					80	
Ala	Ile	Leu	Gln	Phe	Phe	Gly	Ile	Ser	Ile	Asp	Ser	Phe	Arg	Tyr	Ser
			85					90						95	
Arg	Arg	Asp	Pro	Gly	Gly	Asp	Asp	Cys	His	Val	Asp	Asp	Gln	Arg	Gln
			100					105					110		
Ala	Gly	Gly	Gly												
			115												

<210> 9154

<211> 318

<212> PRT

<213> Enterobacter cloacae

<400> 9154

His	Ser	Ser	Gly	Thr	Arg	Gln	Lys	Val	Arg	Ala	Met	Leu	Lys	Phe	Ile
1				5					10					15	
Leu	Arg	Arg	Cys	Leu	Glu	Ala	Ile	Pro	Thr	Leu	Phe	Ile	Leu	Ile	Thr
			20					25					30		
Ile	Ser	Phe	Phe	Met	Met	Arg	Leu	Ala	Pro	Gly	Ser	Pro	Phe	Thr	Gly
		35					40					45			
Glu	Arg	Thr	Leu	Pro	Pro	Glu	Val	Met	Ala	Asn	Ile	Glu	Ala	Lys	Tyr
	50					55				60					
His	Leu	Asn	Asp	Pro	Ile	Thr	Thr	Gln	Tyr	Phe	Asn	Tyr	Leu	Lys	Gln
65				70					75					80	
Leu	Ala	His	Gly	Asp	Phe	Gly	Pro	Ser	Phe	Lys	Tyr	Lys	Asp	Tyr	Ser
			85					90						95	
Val	Asn	Asp	Leu	Val	Ala	Ser	Ser	Phe	Pro	Val	Ser	Ala	Lys	Leu	Gly
			100					105					110		
Ala	Ala	Ala	Phe	Ile	Leu	Ala	Val	Val	Leu	Gly	Val	Thr	Ala	Gly	Val
		115					120					125			
Ile	Ala	Ala	Leu	Lys	Gln	Asn	Thr	Arg	Trp	Asp	Tyr	Ala	Val	Met	Gly
	130					135				140					
Val	Ala	Met	Thr	Gly	Val	Val	Ile	Pro	Ser	Phe	Val	Val	Ala	Pro	Leu
145					150				155					160	
Leu	Val	Met	Ile	Phe	Ala	Ile	Thr	Leu	Lys	Trp	Leu	Pro	Gly	Gly	Gly
			165						170					175	
Trp	Asn	Gly	Gly	Ala	Leu	Lys	Phe	Met	Ile	Leu	Pro	Met	Val	Ala	Leu
		180						185					190		
Ser	Leu	Ala	Tyr	Ile	Ala	Ser	Ile	Ala	Arg	Ile	Thr	Arg	Gly	Ser	Met

305

<210> 9156

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 9156

Arg	Asn	Ser	Val	Met	Ile	Val	Val	Leu	Ser	Glu	Lys	Gly	Glu	Asp	Met
1				5					10					15	
Leu	Ser	Ile	Ala	Arg	Arg	Thr	Ala	Ala	Gly	Ala	Ala	Val	Leu	Leu	Val
			20					25					30		
Ile	Pro	Leu	Val	Val	Trp	Phe	Ser	Gly	Trp	Met	Trp	Gln	Pro	Gly	Gln
		35					40					45			
Asn	Glu	Thr	Trp	Leu	Lys	Ala	Leu	Tyr	Trp	Ile	Thr	Glu	Thr	Val	Thr
	50					55					60				
Gln	Pro	Trp	Gly	Ile	Ile	Thr	His	Val	Leu	Leu	Cys	Gly	Trp	Phe	Leu
65					70					75					80
Trp	Cys	Leu	Arg	Phe	Arg	Leu	Arg	Ala	Ala	Leu	Val	Leu	Phe	Ala	Ile
				85					90					95	
Leu	Gly	Gly	Ala	Ile	Leu	Ile	Gly	Gln	Gly	Val	Lys	Ser	Trp	Val	Lys
			100					105						110	
Asp	Arg	Val	Gln	Glu	Pro	Arg	Pro	Phe	Val	Val	Trp	Leu	Glu	Lys	Thr
		115					120					125			
His	His	Val	Pro	Val	Asp	Glu	Phe	Tyr	Asn	Leu	Lys	Arg	Lys	Asp	Arg
	130					135					140				
Gly	Ala	Leu	Val	Lys	Glu	Gln	Leu	Ala	Glu	Gln	Gln	Asp	Ile	Pro	Thr
145					150					155					160
Phe	Leu	Arg	Lys	His	Trp	Gln	Lys	Glu	Thr	Gly	Phe	Ala	Phe	Pro	Ser
			165						170					175	
Gly	His	Thr	Met	Phe	Ala	Ala	Ser	Trp	Ala	Leu	Leu	Gly	Val	Gly	Leu
			180					185					190		
Leu	Trp	Pro	Arg	Arg	Arg	Thr	Leu	Thr	Ile	Ala	Ile	Leu	Leu	Val	Trp
		195				200						205			
Ala	Thr	Gly	Val	Met	Gly	Ser	Arg	Met	Leu	Leu	Gly	Met	His	Trp	Pro
	210				215						220				
Arg	Asp	Leu	Val	Val	Ala	Thr	Leu	Ile	Ser	Trp	Val	Leu	Val	Thr	Leu
225					230					235					240
Ala	Thr	Trp	Leu	Ala	Gln	Arg	Phe	Cys	Gly	Pro	Leu	Thr	Pro	Pro	Pro
			245						250					255	
Glu	Glu	Lys	Glu	Glu	Ile	Ala	Glu	Arg	Glu	Ser	Gly	Gly	Thr		
			260					265					270		

<210> 9157

<211> 157

<212> PRT

<213> Enterobacter cloacae

<400> 9157

Val	Leu	Phe	Ile	Ser	Gly	Thr	Pro	Phe	Phe	Ser	Ser	Ser	Ala	Ser	Arg
1				5					10					15	
Leu	Ile	Arg	Ser	Gly	Ile	Ala	Gly	Gly	Ile	Leu	Val	Val	Thr	Ile	Ala
			20					25					30		
Met	Ser	Met	Ile	Ser	Gly	Lys	Leu	Gly	Glu	Asp	Lys	Gln	Asn	Lys	Gln
		35					40					45			
Glu	Lys	Ser	Glu	Thr	Ala	Ile	Arg	Glu	Ser	Ile	Gly	Val	Val	Pro	Leu
	50					55					60				
Ala	Leu	Pro	Leu	Met	Ala	Gly	Pro	Gly	Ala	Ile	Ser	Ser	Thr	Ile	Val
65					70					75					80
Trp	Gly	Thr	Arg	Tyr	His	Ser	Leu	Met	His	Leu	Ile	Gly	Phe	Ser	Val
				85					90					95	

Ala	Ile	Ala	Leu	Phe	Ala	Leu	Cys	Cys	Trp	Gly	Val	Phe	Arg	Met	Ala
			100					105					110		
Pro	Trp	Leu	Val	Arg	Leu	Leu	Gly	Gln	Thr	Gly	Ile	Asn	Val	Ile	Thr
		115					120					125			
Arg	Ile	Met	Gly	Leu	Leu	Leu	Met	Ala	Leu	Gly	Ile	Glu	Phe	Ile	Val
	130					135					140				
Thr	Gly	Ile	Lys	Ser	Ile	Phe	Pro	Gly	Leu	Val	His				
145					150					155					

<210> 9158

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 9158

Ala	Ala	Gly	Gly	Ala	Gly	Met	Asn	Ala	Ile	Asp	Glu	Lys	Arg	Asn	Val
1				5					10					15	
Leu	Leu	Glu	Ile	Ala	Asp	Leu	Lys	Val	His	Phe	Asp	Ile	Lys	Asp	Gly
			20					25					30		
Lys	Gln	Trp	Phe	Trp	Gln	Pro	Ala	Lys	Thr	Leu	Lys	Ala	Val	Asp	Gly
		35					40					45			
Val	Thr	Leu	Arg	Leu	Tyr	Glu	Gly	Glu	Thr	Leu	Gly	Val	Val	Gly	Glu
	50					55					60				
Ser	Gly	Cys	Gly	Lys	Ser	Thr	Phe	Ala	Arg	Ala	Ile	Ile	Gly	Leu	Val
65					70				75						80
Lys	Ala	Thr	Asp	Gly	Lys	Val	Ala	Trp	Leu	Gly	Lys	Asp	Leu	Leu	Gly
			85					90					95		
Met	Lys	Pro	Asp	Glu	Trp	Arg	Asp	Val	Arg	Ser	Asp	Ile	Gln	Met	Ile
			100					105					110		
Phe	Gln	Asp	Pro	Leu	Ala	Ser	Leu	Asn	Pro	Arg	Met	Thr	Ile	Gly	Glu
		115					120					125			
Ile	Ile	Ala	Glu	Pro	Leu	Arg	Thr	Tyr	His	Pro	Lys	Met	Pro	Arg	Gln
	130					135					140				
Glu	Val	Arg	Asp	Arg	Val	Lys	Ala	Met	Met	Leu	Lys	Val	Gly	Leu	Leu
145					150					155					160
Pro	Asn	Leu	Ile	Asn	Arg	Tyr	Pro	His	Glu	Phe	Ser	Gly	Gly	Gln	Cys
			165					170						175	
Gln	Arg	Ile	Gly	Ile	Ala	Arg	Ala	Leu	Ile	Leu	Glu	Pro	Lys	Leu	Ile
		180					185						190		
Ile	Cys	Asp	Glu	Pro	Val	Ser	Ala	Leu	Asp	Val	Ser	Ile	Gln	Ala	Gln
	195						200					205			
Val	Val	Asn	Leu	Leu	Gln	Lys	Leu	Gln	Arg	Glu	Met	Gly	Leu	Ser	Leu
	210					215					220				
Ile	Phe	Ile	Ala	His	Asp	Leu	Ala	Val	Val	Lys	His	Ile	Ser	Asp	Arg
225					230					235					240
Val	Leu	Val	Met	Tyr	Leu	Gly	His	Ala	Val	Glu	Leu	Gly	Thr	Tyr	Asp
			245					250						255	
Glu	Val	Tyr	His	Asn	Pro	Leu	His	Pro	Tyr	Thr	Lys	Ala	Leu	Met	Ser
		260						265					270		
Ala	Val	Pro	Val	Pro	Asp	Pro	Asp	Leu	Glu	Lys	Asn	Lys	Thr	Ile	Gln
		275					280					285			
Leu	Leu	Glu	Gly	Glu	Leu	Pro	Ser	Pro	Ile	Asn	Pro	Pro	Ser	Gly	Cys
	290					295					300				
Val	Phe	Arg	Thr	Arg	Cys	Pro	Ile	Ala	Gly	Pro	Glu	Cys	Ala	Lys	Thr
305					310					315					320
Arg	Pro	Val	Leu	Glu	Gly	Ser	Phe	Arg	His	Ala	Val	Ser	Cys	Leu	Lys
			325						330					335	
Val	Asp	Pro	Leu												
			340												

<210> 9159

<211> 288
 <212> PRT
 <213> Enterobacter cloacae

<400> 9159

Cys	Gln	Pro	Leu	Phe	Phe	Glu	Val	Asn	Val	Ser	Arg	Leu	Phe	Thr	Ser
1				5					10					15	
Ala	Arg	Gln	Arg	Leu	Tyr	His	Leu	Leu	Phe	Asp	Pro	Glu	Thr	Val	Ser
			20					25					30		
Gly	Arg	Arg	Phe	Glu	Gly	Leu	Cys	Gly	Leu	Phe	Ala	Leu	Ile	Ser	Val
		35					40					45			
Ile	Ile	Ile	Phe	Ile	Glu	Ser	Gly	Ala	Gly	Thr	Gln	Tyr	His	Met	Thr
	50					55					60				
Tyr	Glu	Glu	Trp	His	Val	Phe	Val	Trp	Leu	Glu	Leu	Ile	Val	Thr	Leu
65					70					75					80
Val	Phe	Thr	Ala	Glu	Tyr	Val	Leu	Arg	Val	Ile	Ser	Trp	Pro	Asn	Pro
				85					90					95	
Ala	Lys	Tyr	Val	Phe	Ser	Phe	Trp	Gly	Phe	Ile	Asp	Leu	Ala	Thr	Ile
			100					105					110		
Leu	Pro	Leu	Tyr	Val	Met	Trp	Leu	Trp	Pro	Glu	Ile	Ser	Leu	Asn	Tyr
		115					120					125			
Val	Phe	Ala	Trp	Arg	Ala	Met	Arg	Ala	Ile	Arg	Val	Leu	Arg	Ile	Leu
	130					135					140				
Lys	Leu	Leu	Arg	Phe	Met	Pro	Ser	Leu	Arg	Val	Phe	Trp	Val	Ala	Ile
145					150					155					160
Val	Ser	Ala	Arg	His	Gln	Leu	Ile	Leu	Phe	Tyr	Ser	Phe	Ile	Ala	Ile
				165					170					175	
Val	Met	Ile	Val	Phe	Gly	Ser	Leu	Met	Tyr	Leu	Ile	Glu	Gly	Pro	Lys
		180						185					190		
Tyr	Gly	Phe	Thr	Thr	Leu	Asn	Ala	Ser	Val	Tyr	Trp	Ala	Ile	Val	Thr
		195					200					205			
Val	Thr	Thr	Val	Gly	Tyr	Gly	Asp	Ile	Thr	Pro	His	Thr	Pro	Leu	Gly
		210				215					220				
Arg	Ile	Val	Ala	Ser	Val	Leu	Ile	Leu	Ile	Gly	Tyr	Ser	Val	Ile	Ala
225					230					235					240
Ile	Pro	Thr	Gly	Leu	Ile	Thr	Thr	His	Met	Ser	Ser	Ala	Phe	Gln	Asn
				245					250					255	
Ser	Lys	Gln	Gln	Arg	Lys	Cys	Pro	Lys	Cys	Gln	Gln	Gly	Asn	His	Glu
		260						265					270		
Pro	Gly	Ala	Arg	Phe	Cys	His	Arg	Cys	Gly	Asn	Ala	Leu	Pro	Asp	
		275					280					285			

<210> 9160
 <211> 216
 <212> PRT
 <213> Enterobacter cloacae

<400> 9160

Arg	Cys	Pro	Leu	Asn	Ile	Gln	Ala	Ile	Asn	Phe	Cys	Ser	Leu	Phe	Pro
1				5					10					15	
Ser	Ala	Phe	Arg	Asp	Ile	Leu	Ser	Pro	Leu	Asn	Val	Met	Ile	Leu	Lys
			20					25					30		
Asp	Glu	Ser	Leu	Ser	Leu	Asp	Phe	Tyr	Cys	Thr	Phe	Gly	Ala	Gly	Cys
		35					40					45			
Ala	Gln	Gly	Arg	Phe	Arg	Thr	Phe	Val	Ile	Phe	Leu	Ile	Gly	Arg	Leu
		50				55					60				
Cys	Phe	Arg	Met	Gly	Asn	Thr	Leu	Ala	Leu	Leu	Lys	Glu	Gln	Arg	Met
65					70					75					80
Asn	Gly	Lys	Val	Met	Ala	Ala	Leu	Phe	Gly	Ile	Ala	Ile	Leu	Ser	Gly
				85					90					95	
Cys	Ala	Ser	Ser	Lys	Thr	Ser	Pro	Glu	Arg	His	Ala	Phe	Tyr	Phe	Val

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<210> 9161
<211> 292
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<210> 9162
 <211> 218
 <212> PRT
 <213> Enterobacter cloacae

<400> 9162

```

Asn His Asn Asp Gly Ala Asp Met Lys Lys Leu Ala Val Ala Ala Leu
1      5      10      15
Ile Leu Ser Ser Leu Ser Gly Gly Ala Tyr Ala His Glu Ala Gly Glu
20      25      30
Phe Phe Ile Arg Ala Gly Ser Ala Thr Val Arg Pro Thr Glu Gly Ser
35      40      45
Asp Asn Val Leu Gly Met Gly Gly Phe Asn Val Ser Asn Asn Thr Gln
50      55      60
Leu Gly Leu Thr Phe Thr Tyr Met Ala Thr Asp Asn Val Gly Val Glu
65      70      75      80
Leu Leu Ala Ala Thr Pro Phe Arg His Arg Val Gly Leu Gly Pro Thr
85      90      95
Gly Asp Ile Ala Thr Val His His Leu Pro Pro Thr Leu Met Ala Gln
100     105     110
Trp Tyr Phe Gly Asp Ser Ser Ser Lys Val Arg Pro Tyr Ile Gly Ala
115     120     125
Gly Val Asn Tyr Thr Thr Phe Phe Asp Glu Lys Phe Asn Asp Thr Gly
130     135     140
Lys Glu Ala Gly Leu Ser Asp Leu Ser Leu Lys Asp Ser Trp Gly Met
145     150     155     160
Ala Gly Gln Val Gly Leu Asp Tyr Leu Ile Asn Arg Asp Trp Leu Ile
165     170     175
Asn Ala Ser Val Trp Tyr Met Asp Ile Asp Thr Asp Val Arg Phe Lys
180     185     190
Ala Gly Gly Gln Gln Gln Ser Ile Asn Thr Arg Leu Asp Pro Trp Val
195     200     205
Phe Met Phe Ser Ala Gly Tyr Arg Phe
210     215

```

<210> 9163
 <211> 211
 <212> PRT
 <213> Enterobacter cloacae

<400> 9163

```

Arg Glu Gly Ser Met Ser Gln Phe Phe Tyr Ile His Pro Asp Asn Pro
1      5      10      15
Gln Pro Arg Leu Ile Asn Gln Ala Val Glu Ile Val Arg Lys Gly Gly
20      25      30
Val Ile Val Tyr Pro Thr Asp Ser Gly Tyr Ala Leu Gly Cys Lys Ile
35      40      45
Glu Asp Lys Gly Ala Met Glu Arg Ile Cys Arg Ile Arg Gln Leu Pro
50      55      60
Asp Gly His Asn Phe Thr Leu Met Cys Arg Asp Leu Ser Glu Leu Ser
65      70      75      80
Thr Tyr Ala Tyr Val Asp Asn Val Ala Phe Arg Leu Ile Lys Asn Asn
85      90      95
Thr Pro Gly Asn Tyr Thr Phe Ile Leu Lys Gly Thr Lys Glu Val Pro
100     105     110
Arg Arg Leu Leu Gln Glu Lys Arg Lys Thr Ile Gly Met Arg Val Pro
115     120     125
Ser Asn Pro Ile Ala Gln Ala Leu Leu Glu Thr Leu Gly Glu Pro Met
130     135     140
Leu Ser Thr Ser Leu Met Leu Pro Gly Ser Glu Phe Thr Glu Ser Asp
145     150     155     160

```

Pro Glu Glu Ile Lys Asp Arg Leu Glu Lys Val Val Glu Leu Ile Ile
 165 170 175
 His Gly Gly Tyr Leu Gly Gln Gln Pro Thr Thr Val Val Asp Leu Thr
 180 185 190
 Glu Asp Ala Pro Glu Val Ile Arg Glu Gly Val Gly Asp Val Lys Pro
 195 200 205
 Phe Leu
 210

<210> 9164

<211> 354

<212> PRT

<213> Enterobacter cloacae

<400> 9164

Ile Lys Val Glu Arg Val Glu Leu Leu Ser Gln Tyr Gly Leu Phe Leu
 1 5 10 15
 Ala Lys Ile Ala Thr Val Val Ile Ala Val Ala Val Ile Ala Val Leu
 20 25 30
 Ile Val Asn Leu Thr Gln Arg Lys Arg Gln Arg Gly Glu Leu Arg Ile
 35 40 45
 Thr Arg Leu Ser Glu Gln Tyr Lys Glu Met Gln Glu Met Ser Leu
 50 55 60
 Ala Leu Leu Asp Asp His Gln Gln Lys Leu Trp Leu Lys Ala Gln Lys
 65 70 75 80
 Lys Lys His Lys Gln Asp Ala Lys Ala Ala Lys Ala Lys Ala Lys Leu
 85 90 95
 Ala Thr Pro Gln Ala Asp Ala Lys Pro Arg Val Tyr Val Leu Asp Phe
 100 105 110
 Lys Gly Ser Met Asp Ala His Glu Val Ser Ser Leu Arg Glu Glu Val
 115 120 125
 Thr Ala Val Leu Ala Val Ala Thr Ala Gln Asp Gln Val Val Val Arg
 130 135 140
 Leu Glu Ser Pro Gly Gly Val Val His Gly Tyr Gly Leu Ala Ala Ser
 145 150 155 160
 Gln Leu Gln Arg Leu Arg Asp Lys Gln Ile Pro Leu Thr Val Ala Val
 165 170 175
 Asp Lys Val Ala Ala Ser Gly Gly Tyr Met Met Ala Cys Val Ala Asp
 180 185 190
 Lys Ile Val Ala Ala Pro Phe Ser Ile Ile Gly Ser Ile Gly Val Val
 195 200 205
 Ala Gln Ile Pro Asn Phe Asn Arg Phe Leu Lys Asn Lys Glu Ile Asp
 210 215 220
 Ile Glu Leu His Thr Ala Gly Gln Tyr Lys Arg Thr Leu Thr Leu Leu
 225 230 235 240
 Gly Glu Asn Thr Glu Glu Gly Arg Gln Lys Phe Arg Glu Asp Leu Asn
 245 250 255
 Glu Thr His His Leu Phe Lys Asp Phe Val His Arg Met Arg Pro Thr
 260 265 270
 Leu Asp Ile Glu Gln Val Ala Thr Gly Glu His Trp Tyr Gly Thr Gln
 275 280 285
 Ala Gln Glu Lys Gly Leu Val Asp Glu Val Gly Thr Ser Asp Asp Leu
 290 295 300
 Leu Leu Asn Leu Met Asp Gly Arg Glu Leu Val Gly Val Arg Phe Thr
 305 310 315 320
 Arg Arg Lys Arg Leu Leu Asp Arg Phe Thr Asn Ser Ala Ala Glu Ser
 325 330 335
 Ala Asp Arg Leu Leu Arg Trp Leu Gln Arg Gly Gln Lys Pro Leu
 340 345 350
 Leu

<210> 9165

<211> 947

<212> PRT

<213> Enterobacter cloacae

<400> 9165

```

Ile Val Lys Pro Arg His Gly Gly Val Phe Cys Phe Ile Pro Arg Val
1      5      10      15
Gly Pro Phe Leu Asn Leu Ser Ile Trp Val Val Ile Lys Thr Leu Arg
20      25      30
His Leu Cys Val Ile Phe Asn Tyr Ser Pro Asp Asp Cys Gln Asp Ile
35      40      45
Pro Val Phe Lys Glu Glu Leu Met Ser Leu Thr Leu Arg Glu Ala Ser
50      55      60
Lys Asp Thr Leu Gln Ala Glu Asn Lys Thr Trp Arg Tyr Tyr Ser Leu
65      70      75      80
Pro Leu Ala Ala Arg Thr Leu Gly Asp Ile Ser Arg Leu Pro Lys Ser
85      90      95
Leu Lys Val Leu Leu Glu Asn Leu Leu Arg Trp Gln Asp Gly Asp Ser
100     105     110
Val Thr Glu Glu Asp Ile Gln Ala Leu Ala Gly Trp Leu Lys Asn Ala
115     120     125
His Ala Asp Arg Glu Ile Ala Tyr Arg Pro Ala Arg Val Leu Met Gln
130     135     140
Asp Phe Thr Gly Val Pro Ala Val Val Asp Leu Ala Ala Met Arg Glu
145     150     155     160
Ala Val Lys Arg Leu Gly Gly Asp Thr Ala Lys Val Asn Pro Leu Ser
165     170     175
Pro Val Asp Leu Val Ile Asp His Ser Val Thr Val Asp His Phe Gly
180     185     190
Asp Asp Asp Ala Phe Gly Glu Asn Val Arg Leu Glu Met Glu Arg Asn
195     200     205
His Glu Arg Tyr Val Phe Leu Lys Trp Gly Gln Gln Ala Phe Ser Arg
210     215     220
Phe Ser Val Val Pro Pro Gly Thr Gly Ile Cys His Gln Val Asn Leu
225     230     235     240
Glu Tyr Leu Gly Lys Ala Val Trp Ser Glu Leu Gln Asp Lys Glu Trp
245     250     255
Val Ala Tyr Pro Asp Thr Leu Val Gly Thr Asp Ser His Thr Thr Met
260     265     270
Ile Asn Gly Leu Gly Val Leu Gly Trp Gly Val Gly Gly Ile Glu Ala
275     280     285
Glu Ala Ala Met Leu Gly Gln Pro Val Ser Met Leu Ile Pro Asp Val
290     295     300
Val Gly Phe Lys Leu Thr Gly Lys Leu Ser Glu Gly Ile Thr Ala Thr
305     310     315     320
Asp Leu Val Leu Thr Val Thr Gln Met Leu Arg Lys His Gly Val Val
325     330     335
Gly Lys Phe Val Glu Phe Tyr Gly Asp Gly Leu Asp Ser Leu Pro Leu
340     345     350
Ala Asp Arg Ala Thr Ile Ala Asn Met Ala Pro Glu Tyr Gly Ala Thr
355     360     365
Cys Gly Phe Phe Pro Ile Asp Ser Val Thr Leu Glu Tyr Met Arg Leu
370     375     380
Ser Gly Arg Ser Glu Glu Gln Val Ala Leu Val Glu Ala Tyr Thr Lys
385     390     395     400
Ala Gln Gly Met Trp Arg Asn Pro Gly Asp Glu Pro Val Phe Thr Ser
405     410     415
Thr Leu Glu Leu Asp Met Gly Thr Val Glu Ala Ser Leu Ala Gly Pro
420     425     430

```


Lys	Arg	Pro	Gln	Asp	Arg	Val	Ala	Leu	Ser	Asn	Val	Pro	Lys	Ala	Phe
		435					440					445			
Ala	Ala	Ser	Asn	Glu	Leu	Glu	Val	Asn	Ala	Ala	Gln	Lys	Asp	His	Arg
		450				455					460				
Pro	Val	Asp	Tyr	Val	Leu	Asn	Gly	His	Gln	Tyr	Gln	Leu	Pro	Asp	Gly
465					470					475					480
Ala	Val	Val	Ile	Ala	Ala	Ile	Thr	Ser	Cys	Thr	Asn	Thr	Ser	Asn	Pro
				485					490					495	
Ser	Val	Leu	Met	Ala	Ala	Gly	Leu	Leu	Ala	Lys	Lys	Ala	Val	Glu	Leu
			500					505					510		
Gly	Leu	Lys	Pro	Gln	Pro	Trp	Val	Lys	Ala	Ser	Leu	Ala	Pro	Gly	Ser
		515					520					525			
Lys	Val	Val	Ser	Asp	Tyr	Leu	Ala	Gln	Ala	Arg	Leu	Thr	Pro	Tyr	Leu
		530				535					540				
Asp	Glu	Leu	Gly	Phe	Asn	Leu	Val	Gly	Tyr	Gly	Cys	Thr	Thr	Cys	Ile
545					550					555					560
Gly	Asn	Ser	Gly	Pro	Leu	Pro	Glu	Pro	Ile	Glu	Val	Ala	Ile	Arg	Gln
				565					570					575	
Gly	Asp	Leu	Thr	Val	Gly	Ala	Val	Leu	Ser	Gly	Asn	Arg	Asn	Phe	Glu
			580					585					590		
Gly	Arg	Ile	His	Pro	Leu	Val	Lys	Thr	Asn	Trp	Leu	Ala	Ser	Pro	Pro
		595					600					605			
Leu	Val	Val	Ala	Tyr	Ala	Leu	Ala	Gly	Asn	Met	Asn	Ile	Asn	Leu	Ala
		610				615					620				
Thr	Asp	Pro	Ile	Gly	His	Asp	Arg	Lys	Asn	Glu	Pro	Val	Tyr	Leu	Lys
625					630					635					640
Asp	Ile	Trp	Pro	Ser	Ser	Arg	Glu	Ile	Ala	Arg	Ala	Val	Glu	Lys	Val
				645					650					655	
Ser	Thr	Glu	Met	Phe	Arg	Lys	Glu	Tyr	Ala	Glu	Val	Phe	Glu	Gly	Thr
			660					665					670		
Ala	Glu	Trp	Lys	Ala	Ile	Asp	Val	Val	Gly	Ser	Asp	Thr	Tyr	Asp	Trp
		675					680					685			
Gln	Asp	Asp	Ser	Thr	Tyr	Ile	Arg	Leu	Ser	Pro	Phe	Phe	Asp	Glu	Met
		690				695					700				
Leu	Ala	Glu	Pro	Ala	Pro	Leu	Lys	Asp	Ile	His	Gly	Ala	Arg	Ile	Leu
705					710					715					720
Ala	Met	Leu	Gly	Asp	Ser	Val	Thr	Thr	Asp	His	Ile	Ser	Pro	Ala	Gly
			725						730					735	
Ser	Ile	Lys	Ala	Asp	Ser	Pro	Ala	Gly	Arg	Tyr	Leu	Gln	Ser	Arg	Gly
			740					745					750		
Val	Glu	Arg	Arg	Asp	Phe	Asn	Ser	Tyr	Gly	Ser	Arg	Arg	Gly	Asn	His
		755						760				765			
Glu	Val	Met	Met	Arg	Gly	Thr	Phe	Ala	Asn	Ile	Arg	Ile	Arg	Asn	Glu
		770				775					780				
Met</															

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<210> 9166
<211> 116
<212> PRT
<213> Enterobacter cloacae
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<210> 9167
<211> 363
<212> PRT
<213> Enterobacter cloacae
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<400>	9167															
Ser	Asn	Met	Leu	Glu	Leu	Leu	Phe	Leu	Leu	Leu	Pro	Val	Ala	Ala	Ala	
1				5					10					15		
Tyr	Gly	Trp	Tyr	Met	Gly	Arg	Arg	Ser	Ala	Gln	Gln	Thr	Lys	Gln	Asp	
			20					25					30			
Glu	Ala	Asn	Arg	Leu	Ser	Arg	Asp	Tyr	Val	Ala	Gly	Val	Asn	Phe	Leu	
		35					40					45				
Leu	Ser	Asn	Gln	Gln	Asp	Lys	Ala	Val	Asp	Leu	Phe	Leu	Asp	Met	Leu	
	50					55					60					
Lys	Glu	Asp	Thr	Gly	Thr	Val	Glu	Ala	His	Leu	Thr	Leu	Gly	Asn	Leu	
65					70					75					80	
Phe	Arg	Ser	Arg	Gly	Glu	Val	Asp	Arg	Ala	Ile	Arg	Ile	His	Gln	Thr	
				85					90					95		
Leu	Met	Glu	Ser	Ala	Ser	Leu	Thr	Tyr	Glu	Gln	Arg	Leu	Leu	Ala	Val	
			100					105					110			
Gln	Gln	Leu	Gly	Arg	Asp	Tyr	Met	Ala	Ala	Gly	Leu	Tyr	Asp	Arg	Ala	
		115					120					125				
Glu	Asp	Met	Phe	Ser	Gln	Leu	Val	Asp	Glu	Thr	Asp	Phe	Arg	Ile	Gly	
	130					135					140					
Ala	Leu	Gln	Gln	Leu	Leu	Gln	Ile	Tyr	Gln	Ala	Thr	Ser	Asp	Trp	Gln	
145					150					155					160	
Lys	Ala	Ile	Asp	Thr	Ala	Glu	Arg	Leu	Val	Lys	Leu	Gly	Lys	Asp	Lys	
				165					170					175		
Gln	Arg	Val	Glu	Ile	Ala	His	Phe	Tyr	Cys	Glu	Leu	Ala	Leu	Gln	Gln	
			180					185					190			
Met	Gly	Ser	Asp	Asp	Met	Asp	Lys	Ala	Met	Ala	Leu	Leu	Lys	Lys	Gly	
		195					200					205				

Ala	Ala	Ala	Asp	Arg	Asn	Ser	Ala	Arg	Ile	Ser	Ile	Met	Met	Gly	Arg
	210					215					220				
Val	Phe	Met	Ala	Asn	Gly	Asp	Tyr	Ala	Lys	Ala	Val	Glu	Ser	Leu	Leu
225					230					235					240
Arg	Val	Ile	Asp	Gln	Asp	Lys	Glu	Leu	Val	Ser	Glu	Thr	Leu	Glu	Met
			245						250					255	
Leu	Gln	Thr	Cys	Tyr	Gln	Gln	Leu	Gly	Lys	Gln	Asp	Glu	Trp	Val	Ala
			260					265					270		
Phe	Leu	Arg	Arg	Cys	Val	Glu	Glu	Asn	Thr	Gly	Ala	Thr	Ala	Glu	Leu
		275						280				285			
Met	Leu	Ser	Asp	Val	Val	Glu	Glu	His	Glu	Gly	Ser	Asp	Thr	Ala	Gln
	290					295					300				
Val	Tyr	Ile	Thr	Arg	Gln	Leu	Gln	Leu	His	Pro	Thr	Met	Arg	Val	Phe
305					310					315					320
His	Lys	Leu	Met	Asp	Tyr	His	Leu	Asn	Asp	Ala	Glu	Glu	Gly	Arg	Ala
			325						330					335	
Lys	Glu	Ser	Leu	Met	Val	Leu	Arg	Asp	Met	Val	Phe	Asn	Arg	Gly	Asp
			340					345					350		
Trp	Pro	Asp	Gln	Arg	Leu	Ile	Leu	Ala	Lys	Ser					
		355					360								

<210> 9168

<211> 583

<212> PRT

<213> Enterobacter cloacae

<400> 9168

Gln	Glu	Val	Lys	Lys	Asn	Leu	Thr	Val	Ala	Lys	Lys	Thr	Pro	Ala	Leu
1			5						10					15	
Tyr	Arg	Pro	Gln	Gly	Ile	Thr	Gln	Leu	Ala	Lys	Ala	Ser	His	Tyr	
		20					25					30			
Asn	Glu	Trp	Ser	Ile	Asn	Thr	Met	Ser	Ile	Ile	Thr	Lys	Lys	Ser	Leu
		35					40					45			
Val	Ala	Ala	Gly	Ile	Leu	Thr	Ala	Leu	Ile	Ala	Gly	Asn	Ala	Ala	Met
	50					55				60					
Ala	Ala	Asp	Val	Pro	Ala	Gly	Val	Gln	Leu	Ala	Glu	Lys	Gln	Thr	Leu
65					70				75						80
Val	Arg	Asn	Asn	Gly	Ala	Glu	Val	Gln	Ser	Leu	Asp	Pro	His	Lys	Ile
			85						90					95	
Glu	Gly	Val	Pro	Glu	Ser	Asn	Val	Asn	Arg	Asp	Leu	Phe	Glu	Gly	Leu
			100					105					110		
Leu	Val	Thr	Asp	Val	Asn	Gly	His	Pro	Ala	Pro	Gly	Val	Ala	Glu	Lys
		115					120					125			
Trp	Asp	Asn	Lys	Asp	Phe	Lys	Val	Trp	Thr	Phe	His	Leu	Arg	Lys	Asp
	130					135					140				
Ala	Lys	Trp	Ser	Asp	Gly	Thr	Pro	Val	Thr	Ala	Glu	Asp	Phe	Val	Tyr
145					150				155						160
Ser	Trp	Gln	Arg	Leu	Ala	Asp	Pro	Asn	Thr	Ala	Ser	Pro	Tyr	Ala	Ser
			165						170					175	
Tyr	Leu	Gln	Tyr	Gly	His	Ile	Ala	Asn	Ile	Asp	Asp	Ile	Ile	Thr	Gly
		180						185					190		
Lys	Lys	Pro	Val	Thr	Asp	Leu	Gly	Val	Lys	Ala	Ile	Asp	Ala	Asn	Thr
		195					200					205			
Phe	Glu	Val	Thr	Leu	Ser	Glu	Pro	Val	Pro	Tyr	Phe	Tyr	Lys	Leu	Leu
	210					215					220				
Val	His	Pro	Ser	Val	Ser	Pro	Val	Pro	Lys	Ser	Ala	Val	Glu	Lys	Phe
225					230					235					240
Gly	Glu	Lys	Trp	Thr	Gln	Pro	Ala	Asn	Ile	Val	Thr	Asn	Gly	Ala	Tyr
			245						250					255	
Lys	Leu	Lys	Asp	Trp	Val	Val	Asn	Glu	Arg	Met	Val	Leu	Glu	Arg	Asn
			260					265					270		

Pro Gln Tyr Trp Asp Asn Ala Lys Thr Val Ile Asn Gln Val Thr Tyr
 275 280 285
 Leu Pro Ile Ser Ser Glu Val Thr Asp Val Asn Arg Tyr Arg Ser Gly
 290 295 300
 Glu Ile Asp Met Thr Tyr Asn Asn Met Pro Ile Glu Leu Phe Pro Lys
 305 310 315 320
 Leu Lys Lys Glu Ile Pro Lys Glu Val His Val Asp Pro Tyr Leu Cys
 325 330 335
 Thr Tyr Tyr Tyr Glu Ile Asn Asn Gln Lys Ala Pro Phe Thr Asp Val
 340 345 350
 Arg Val Arg Thr Ala Leu Lys Leu Ala Leu Asp Arg Asp Ile Ile Val
 355 360 365
 Asn Lys Val Lys Asn Gln Gly Asp Leu Pro Ala Tyr Ser Tyr Thr Pro
 370 375 380
 Pro Tyr Thr Asp Gly Met Lys Leu Val Glu Pro Glu Trp Phe Lys Trp
 385 390 395 400
 Ser Gln Glu Lys Arg Asn Glu Glu Ala Lys Lys Leu Leu Ala Glu Ala
 405 410 415
 Gly Tyr Thr Ala Asp Lys Pro Leu Thr Phe Ser Leu Leu Tyr Asn Thr
 420 425 430
 Ser Asp Leu His Lys Lys Leu Ala Ile Ala Val Ala Ser Ile Trp Lys
 435 440 445
 Lys Asn Leu Gly Val Asn Val Lys Leu Glu Asn Gln Glu Trp Lys Thr
 450 455 460
 Phe Leu Asp Thr Arg His Gln Gly Thr Phe Asp Val Ala Arg Ala Gly
 465 470 475 480
 Trp Cys Ala Asp Tyr Asn Glu Pro Thr Ser Phe Leu Asn Thr Met Leu
 485 490 495
 Ser Asp Ser Ser Asn Asn Thr Ala His Tyr Lys Ser Pro Ala Phe Asp
 500 505 510
 Lys Leu Ile Gly Glu Thr Leu Lys Val Ala Asp Asp Ala Gln Arg Ala
 515 520 525
 Asp Leu Tyr Ala Lys Ser Glu Gln Gln Leu Asp Lys Asp Ser Ala Ile
 530 535 540
 Val Pro Val Tyr Tyr Tyr Val Asn Ala Arg Leu Val Lys Pro Trp Val
 545 550 555 560
 Gly Gly Tyr Thr Gly Lys Asp Pro Leu Asp Asn Ile Ser Val Lys Asn
 565 570 575
 Leu Tyr Ile Ile Lys His
 580

<210> 9169

<211> 350

<212> PRT

<213> Enterobacter cloacae

<400> 9169

Cys Pro Arg Pro Glu Arg Pro Leu Arg Ser Ala Val Met Thr Ile Ile
 1 5 10 15
 Glu Thr Ala Thr Ala Pro Gln Ala Gln Gln Arg Thr Ser Ala Leu Leu
 20 25 30
 Asp Val Lys Asp Leu Arg Val Thr Phe Lys Thr Pro Asp Gly Asp Val
 35 40 45
 Thr Ala Val Asn Asp Leu Asn Phe Asp Leu Arg Ala Gly Glu Thr Leu
 50 55 60
 Gly Ile Val Gly Glu Ser Gly Ser Gly Lys Ser Gln Thr Ala Phe Ala
 65 70 75 80
 Leu Met Gly Leu Leu Ala Ser Asn Gly Val Ile Gly Gly Ser Ala Thr
 85 90 95
 Phe Asn Gly Lys Glu Ile Leu Asn Leu Pro Glu His Glu Leu Asn Lys
 100 105 110

Leu Arg Ala Glu Gln Ile Ser Met Ile Phe Gln Asp Pro Met Thr Ser
 115 120 125
 Leu Asn Pro Tyr Leu Arg Val Gly Glu Gln Leu Met Glu Val Leu Met
 130 135 140
 Leu His Lys Gly Leu Gly Lys Ala Glu Ala Phe Glu Glu Ser Val Lys
 145 150 155 160
 Met Leu Asp Ala Val Lys Met Pro Glu Ala Arg Lys Arg Met Arg Met
 165 170 175
 Tyr Pro His Glu Phe Ser Gly Gly Met Arg Gln Arg Val Met Ile Ala
 180 185 190
 Met Ala Leu Leu Cys Arg Pro Lys Leu Leu Ile Ala Asp Glu Pro Thr
 195 200 205
 Thr Ala Leu Asp Val Thr Val Gln Ala Gln Ile Met Thr Leu Leu Asn
 210 215 220
 Glu Leu Lys Arg Glu Phe Asn Thr Ala Ile Ile Met Ile Thr His Asp
 225 230 235 240
 Leu Gly Val Val Ala Gly Ile Cys Asp Lys Val Leu Val Met Tyr Ala
 245 250 255
 Gly Arg Thr Met Glu Tyr Gly Asn Ala Arg Asp Val Phe Tyr Gln Pro
 260 265 270
 Ala His Pro Tyr Ser Ile Gly Leu Leu Asn Ala Val Pro Arg Leu Asp
 275 280 285
 Ala Glu Gly Glu Ser Leu Leu Thr Ile Pro Gly Asn Pro Pro Asn Leu
 290 295 300
 Leu Arg Leu Pro Lys Gly Cys Pro Phe Gln Pro Arg Cys Pro His Ala
 305 310 315 320
 Met Glu Ile Cys Asn Ser Ala Pro Pro Leu Glu Ala Phe Val Pro Gly
 325 330 335
 Arg Leu Arg Ala Cys Phe Lys Pro Leu Glu Glu Leu Val
 340 345 350

<210> 9170

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 9170

Asp Val Phe Ala Glu Phe Gly Val Leu Asn Phe Trp Thr Tyr Val Val
 1 5 10 15
 Gly Ala Phe Phe Ile Val Leu Val Pro Gly Pro Asn Thr Leu Phe Val
 20 25 30
 Leu Lys Thr Gly Ile Gly His Gly Val Lys Lys Gly Tyr Leu Ala Ala
 35 40 45
 Thr Gly Val Phe Ile Gly Asp Ala Val Leu Met Phe Leu Ala Trp Ala
 50 55 60
 Gly Val Ala Ala Leu Ile Gln Thr Thr Pro Val Leu Phe Asn Ile Val
 65 70 75 80
 Arg Tyr Leu Gly Ala Phe Tyr Leu Leu Trp Leu Gly Gly Lys Met Leu
 85 90 95
 Trp Ser Val Met Thr Arg Gln Lys Asn Ala His Glu Ser Ser Ala Glu
 100 105 110
 Pro Ala Ser Ala Ile Leu Lys Arg Ser Leu Val Leu Ser Leu Thr Asn
 115 120 125
 Pro Lys Ala Ile Leu Phe Tyr Val Ser Phe Phe Val Gln Phe Ile Asp
 130 135 140
 Val Asn Ala Lys Asn Thr Gly Thr Ser Phe Leu Ile Leu Ala Thr Thr
 145 150 155 160
 Leu Glu Leu Ile Ser Phe Met Tyr Met Ser Phe Leu Ile Phe Ser Gly
 165 170 175
 Ala Phe Val Thr Arg Tyr Leu Lys Thr Lys Lys Lys Leu Ala Lys Leu
 180 185 190

Gly Asn Gly Leu Ile Gly Leu Leu Phe Val Gly Phe Ala Ala Arg Leu
 195 200 205
 Ala Ser Leu His
 210

<210> 9171

<211> 317

<212> PRT

<213> Enterobacter cloacae

<400> 9171

Phe Gln Tyr Phe Thr Val Ser Arg Tyr His Arg Gly Phe Gly Cys Leu
 1 5 10 15
 Gln Pro Val Met Gly Ser Ala Leu Ser Asp Thr Thr Tyr Ala Val Ile
 20 25 30
 Tyr Asp Leu His Ser His Thr Gln Ala Ser Asp Gly Leu Leu Thr Pro
 35 40 45
 Glu Ala Leu Val His Arg Ala Val Glu Met Arg Val Gly Thr Leu Ala
 50 55 60
 Ile Thr Asp His Asp Thr Thr Asp Gly Ile Pro Ala Ala Arg Ala Glu
 65 70 75 80
 Ile Val Arg Ser Gly Leu Ala Leu Asp Leu Val Ala Gly Val Glu Ile
 85 90 95
 Ser Thr Val Trp Glu Asn His Glu Ile His Ile Val Gly Leu Asn Ile
 100 105 110
 Asp Thr Glu His Pro Ala Met Arg Ala Phe Leu Gln Glu Gln Lys Thr
 115 120 125
 Arg Arg Asn Gln Arg Ala Glu Met Ile Gly Glu Arg Leu Glu Lys Ala
 130 135 140
 His Ile Pro Gly Ala Leu Glu Gly Ala Arg Lys Leu Ala Asn Gly Gly
 145 150 155 160
 Ala Val Thr Arg Gly His Phe Ala Arg Phe Leu Val Asp Ala Gly Lys
 165 170 175
 Ala Thr Thr Met Ala Asn Val Phe Lys Lys Tyr Leu Ala Arg Gly Lys
 180 185 190
 Thr Gly Tyr Val Pro Pro Gln Trp Cys Thr Ile Lys Gln Ala Ile Asp
 195 200 205
 Val Ile His His Ser Gly Gly Lys Ala Val Leu Ala His Pro Gly Arg
 210 215 220
 Tyr Asn Leu Ser Ala Lys Trp Leu Lys Arg Leu Leu Ala His Phe Ala
 225 230 235 240
 Glu Cys Gly Gly Glu Ala Met Glu Val Ala Gln Cys Gln Gln Ala Pro
 245 250 255
 Asn Glu Arg Ser Gln Leu Ala Thr Tyr Ala Arg Gln Phe Gly Leu Leu
 260 265 270
 Gly Ser Gln Gly Ser Asp Phe His Gln Pro Cys Ala Trp Ile Glu Leu
 275 280 285
 Gly Arg Lys Leu Trp Leu Pro Ala Gly Val Glu Pro Val Trp Gln Leu
 290 295 300
 Trp Glu Gln Pro Gln Gln Ile Glu Glu Arg Glu Val
 305 310 315

<210> 9172

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 9172

Gly Ser Ser Met Ser Glu Lys Leu Gln Lys Val Leu Ala Arg Ala Gly
 1 5 10 15
 His Gly Ser Arg Arg Glu Ile Glu Ala Ile Ile Glu Ala Gly Arg Val

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<210> 9173
<211> 870
<212> PRT
<213> Enterobacter cloacae'
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<400> 9173															
Val	Lys	Val	Asn	Met	Gly	Lys	Ala	Leu	Val	Ile	Val	Glu	Ser	Pro	Ala
1			5					10						15	
Lys	Ala	Lys	Thr	Ile	Asn	Lys	Tyr	Leu	Gly	Asn	Asp	Tyr	Val	Val	Lys
			20					25					30		
Ser	Ser	Val	Gly	His	Ile	Arg	Asp	Leu	Pro	Thr	Ser	Gly	Ser	Ala	Ser
		35					40					45			
Lys	Lys	Ser	Ala	Asp	Ser	Thr	Ser	Thr	Lys	Gly	Ala	Lys	Lys	Pro	Lys
	50					55					60				
Lys	Asp	Glu	Arg	Ser	Ala	Leu	Val	Asn	Arg	Met	Gly	Val	Asn	Pro	Trp
65					70					75					80
Gln	Asn	Trp	Asp	Ala	His	Tyr	Glu	Val	Leu	Pro	Gly	Lys	Glu	Lys	Val
				85					90					95	
Val	Asn	Glu	Leu	Lys	Gln	Leu	Ala	Glu	Lys	Ala	Asp	His	Ile	Tyr	Leu
			100					105					110		
Ala	Thr	Asp	Leu	Asp	Arg	Glu	Gly	Glu	Ala	Ile	Ala	Trp	His	Leu	Arg
		115					120					125			
Glu	Val	Ile	Gly	Gly	Asp	Asp	Lys	Arg	Tyr	Ser	Arg	Val	Val	Phe	Asn
	130					135					140				
Glu	Ile	Thr	Lys	Asn	Ala	Ile	Arg	Gln	Ala	Phe	Glu	Lys	Pro	Gly	Glu

145		150		155		160
Leu Asn Ile Asp Arg	Val Asn Ala Gln Gln Ala Arg Arg Phe Met Asp					
	165		170			175
Arg Val Val Gly Tyr Met Val Ser Pro	Leu Leu Trp Lys Lys Val Ala					
	180		185			190
Arg Gly Leu Ser Ala Gly Arg Val Gln Ser Val Ala Val Arg Leu Val						
	195		200			205
Val Glu Arg Glu Arg Glu Ile Lys Ala Phe Val Pro Glu Glu Phe Trp						
	210		215			220
Glu Val Asp Ala Asn Val Thr Thr Pro Gly Gly Asp Ala Leu Pro Leu						
	225		230			235
Gln Val Ser His His Asn Asp Lys Pro Phe Arg Pro Glu Asn Arg Asp						
	245		250			255
Gln Thr Met Ala Ala Val Ala Leu Leu Glu Lys Ala Arg Tyr Gln Val						
	260		265			270
Leu Asp Arg Glu Asp Lys Pro Thr Ser Ser Lys Pro Gly Ala Pro Phe						
	275		280			285
Ile Thr Ser Thr Leu Gln Gln Ala Ala Ser Thr Arg Leu Gly Tyr Gly						
	290		295			300
Val Lys Lys Thr Met Met Met Ala Gln Arg Leu Tyr Glu Ala Gly Tyr						
	305		310			315
Ile Thr Tyr Met Arg Thr Asp Ser Thr Asn Leu Ser Gln Asp Ala Val						
	325		330			335
Asn Met Val Arg Gly Tyr Ile Glu Asp Asn Phe Gly Lys Lys Tyr Leu						
	340		345			350
Pro Asp Ser Pro Asn Gln Tyr Ala Ser Lys Glu Asn Ser Gln Glu Ala						
	355		360			365
His Glu Ala Ile Arg Pro Ser Asp Val Ser Val Leu Ala Glu Ser Leu						
	370		375			380
Lys Asp Met Glu Ala Asp Ala Gln Lys Leu Tyr Gln Leu Ile Trp Arg						
	385		390			395
Gln Phe Val Ala Cys Gln Met Thr Pro Ala Lys Tyr Asp Ser Thr Thr						
	405		410			415
Leu Thr Val Gly Ala Gly Asp Phe Arg Leu Lys Ala Arg Gly Arg Ile						
	420		425			430
Leu Arg Phe Asp Gly Trp Thr Lys Val Met Pro Ala Leu Arg Lys Gly						
	435		440			445
Asp Glu Asp Arg Thr Leu Pro Ser Val Asn Lys Gly Asp Glu Leu Ser						
	450		455			460
Leu Val Asp Leu Val Pro Ala Gln His Phe Thr Lys Pro Pro Ala Arg						
	465		470			475
Phe Ser Glu Ala Ser Leu Val Lys Glu Leu Glu Lys Arg Gly Ile Gly						
	485		490			495
Arg Pro Ser Thr Tyr Ala Ser Ile Ile Ser Thr Ile Gln Asp Arg Gly						
	500		505			510
Tyr Val Arg Val Glu Asn Arg Arg Phe Tyr Ala Glu Lys Met Gly Glu						
	515		520			525
Ile Val Thr Asp Arg Leu Glu Ala Asn Phe Arg Glu Leu Met Asn Tyr						
	530		535			540
Asp Phe Thr Ala Gln Met Glu Asp Ser Leu Asp Glu Val Ala Ser His						
	545		550			555
Lys Ala Glu Trp Lys Lys Val Leu Asp Ser Phe Phe Ser Asp Phe Thr						
	565		570			575
Asn Gln Leu Glu Lys Ala Glu Lys Asp Pro Glu Glu Gly Gly Met Leu						
	580		585			590
Pro Asn Gln Met Val Leu Thr Ser Ile Asp Cys Pro Thr Cys Gly Arg						
	595		600			605
Lys Met Gly Ile Arg Thr Ala Thr Thr Gly Val Phe Leu Gly Cys Ser						
	610		615			620
Gly Tyr Ala Leu Ser Pro Lys Glu Arg Cys Lys Thr Thr Ile Asn Leu						
	625		630			635
						640

Val Pro Glu Asn Glu Val Leu Asn Val Leu Glu Gly Asp Asp Ala Glu
 645 650 655
 Thr Asn Ala Leu Arg Ala Lys Arg Arg Cys Lys Lys Cys Gly Thr Ala
 660 665 670
 Met Asp Ser Tyr Leu Ile Asp Pro Lys Arg Lys Leu His Val Cys Gly
 675 680 685
 Asn Asn Pro Thr Cys Asp Gly Tyr Glu Ile Glu Glu Gly Glu Phe Arg
 690 695 700
 Ile Lys Gly Tyr Asp Gly Pro Ile Val Glu Cys Glu Lys Cys Gly Ser
 705 710 715 720
 Glu Met His Leu Lys Met Gly Arg Phe Gly Lys Tyr Met Ala Cys Thr
 725 730 735
 Asn Asp Asp Cys Lys Asn Thr Arg Lys Ile Leu Arg Asn Gly Glu Val
 740 745 750
 Ala Pro Pro Lys Glu Asp Pro Val Pro Leu Pro Glu Leu Pro Cys Glu
 755 760 765
 Lys Ser Asp Ala Tyr Phe Val Leu Arg Asp Gly Ala Ala Gly Val Phe
 770 775 780
 Leu Ala Ala Asn Thr Phe Pro Lys Ser Arg Glu Thr Arg Ala Pro Leu
 785 790 795 800
 Val Glu Glu Leu Tyr Arg Phe Arg Asp Arg Leu Pro Glu Lys Leu Arg
 805 810 815
 Tyr Leu Ala Asp Ala Pro Gln Gln Asp Pro Glu Gly Asn Lys Thr Val
 820 825 830
 Val Arg Phe Ser Arg Lys Thr Lys Gln Gln Tyr Val Ala Ala Glu Lys
 835 840 845
 Glu Gly Lys Ala Thr Gly Trp Ser Ala Phe Phe Val Asp Gly Lys Trp
 850 855 860
 Val Glu Gly Lys Lys
 865 870

<210> 9174

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 9174

Ile Gly Trp Ser Gly Met Lys Leu Gln Gln Leu Arg Tyr Ile Val Glu
 1 5 10 15
 Val Val Asn His Asn Leu Asn Val Ser Ser Thr Ala Glu Gly Leu Tyr
 20 25 30
 Thr Ser Gln Pro Gly Ile Ser Lys Gln Val Arg Met Leu Glu Asp Glu
 35 40 45
 Leu Gly Ile Gln Ile Phe Ala Arg Ser Gly Lys His Leu Thr Gln Val
 50 55 60
 Thr Pro Ala Gly Gln Glu Ile Ile Arg Ile Ala Arg Glu Val Leu Ser
 65 70 75 80
 Lys Val Asp Ala Ile Lys Ser Val Ala Gly Glu His Thr Trp Pro Asp
 85 90 95
 Lys Gly Ser Leu Tyr Ile Ala Thr Thr His Thr Gln Ala Arg Tyr Ala
 100 105 110
 Leu Pro Gly Val Ile Lys Gly Phe Ile Glu Arg Tyr Pro Arg Val Ser
 115 120 125
 Leu His Met His Gln Gly Ser Pro Thr Gln Ile Ala Glu Ala Val Ser
 130 135 140
 Lys Gly Asn Ala Asp Phe Ala Ile Ala Thr Glu Ala Leu His Leu Tyr
 145 150 155 160
 Asp Asp Leu Val Met Leu Pro Cys Tyr His Trp Asn Arg Ser Ile Val
 165 170 175
 Val Thr Pro Asp His Pro Leu Ala Gly Lys Gly Glu Val Thr Ile Glu
 180 185 190

Glu Leu Ala Gln Tyr Pro Leu Val Thr Tyr Thr Phe Gly Phe Thr Gly
 195 200 205
 Arg Ser Glu Leu Asp Thr Ala Phe Asn Arg Ala Gly Leu Thr Pro Arg
 210 215 220
 Ile Val Phe Thr Ala Thr Asp Ala Asp Val Ile Lys Thr Tyr Val Arg
 225 230 235 240
 Leu Gly Leu Gly Val Gly Val Ile Ala Ser Met Ala Val Asp Pro Val
 245 250 255
 Ser Asp Pro Asp Leu Val Arg Leu Asp Ala His Asp Ile Phe Ser His
 260 265 270
 Ser Thr Thr Lys Ile Gly Phe Arg Arg Ser Thr Phe Leu Arg Ser Tyr
 275 280 285
 Met Tyr Asp Phe Ile Gln Arg Phe Ala Pro His Leu Thr Arg Asp Val
 290 295 300
 Val Asp Thr Ala Val Ala Leu Arg Ser Asn Glu Asp Ile Glu Glu Met
 305 310 315 320
 Phe Lys Asp Ile Lys Leu Pro Ala Lys 330
 325

<210> 9175

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 9175

Tyr Met Ala Glu Gln His Arg Gly Gly Thr Gly Asn Phe Ala Glu Asp
 1 5 10 15
 Arg Glu Lys Ala Ser Glu Ala Gly Arg Lys Gly Gly Gln His Ser Gly
 20 25 30
 Gly Asn Phe Lys Asn Asp Pro Gln Arg Ala Ser Glu Ala Gly Lys Lys
 35 40 45
 Gly Gly Gln Asn Ser His Gly Gly Gly Arg Lys Ser Asp Asn Ser
 50 55 60

<210> 9176

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 9176

Ile Tyr Arg Glu His Ala Ala Gly Pro Ser Ala Arg Ser Thr Phe Pro
 1 5 10 15
 Leu Phe His Trp Ser Glu Asn Met Asn Met Lys Thr Val Glu Asp Val
 20 25 30
 Phe Ile His Leu Leu Ser Asp Thr Tyr Ser Ala Glu Lys Gln Leu Thr
 35 40 45
 Arg Ala Leu Ser Lys Leu Ala Arg Ala Ala Ser Ser Glu Lys Leu Ser
 50 55 60
 Ala Ala Phe Thr Ala His Leu Glu Glu Thr Gln Gly Gln Ile Glu Arg
 65 70 75 80
 Ile Asp Gln Ile Ile Glu Gln Glu Ser Gly Leu Lys Leu Lys Arg Met
 85 90 95
 Lys Cys Val Ala Met Glu Gly Leu Ile Glu Glu Ala Asn Glu Val Ile
 100 105 110
 Glu Ser Thr Glu Lys Asn Glu Val Arg Asp Ala Ala Leu Ile Ala Ala
 115 120 125
 Ala Gln Lys Val Glu His Tyr Glu Ile Ala Ser Tyr Gly Thr Leu Ala
 130 135 140
 Thr Leu Ala Glu Gln Leu Gly Tyr Lys Lys Ala Val Lys Leu Leu Ala
 145 150 155 160
 Glu Thr Leu Glu Glu Glu Lys Glu Thr Asp Leu Lys Leu Thr Asp Leu

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<210> 9177
<211> 551
<212> PRT
<213> Enterobacter cloacae
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Trp 1	Arg	Arg	Leu	Ser 5	Leu	Arg	Ile	Thr	Met 10	Ala	Gly	Trp	His	Thr 15	Arg
Ala	Ile	Ile	Tyr 20	Gln	Ile	Asp	Thr	Ala 25	Leu	Phe	Tyr	Asp	Leu 30	Asn	Gly
Asp	Gly	Cys 35	Gly	Asp	Ile	Ala	Gly 40	Ile	Ala	Ala	Lys	Leu 45	Arg	Tyr	Ile
Arg 50	Arg	Met	Gly	Ala	Thr	Val 55	Ile	Trp	Ile	Thr	Pro 60	Phe	Tyr	Leu	Thr
Pro 65	Phe	Leu	Asp	Glu	Gly 70	Tyr	Asp	Val	Ser	Asp 75	His	Leu	Gln	Val	Asp 80
Pro	Arg	Phe	Gly	Lys 85	Leu	Asn	Asp	Ile	Ile 90	Ala	Phe	Ile	Glu	Gln 95	Ala
Arg	Glu	Leu	Gly 100	Met	Gln	Val	Ile	Ile 105	Glu	Leu	Leu	Ile	Gln 110	His	Thr
Ser	Asp	Ala 115	His	Pro	Trp	Phe	Gln 120	Gln	Ala	Arg	Arg	Asn 125	Pro	Gln	Ser
Pro	Tyr 130	Arg	Asp	Tyr	Tyr	Leu 135	Trp	Ser	Asp	Thr	Asp 140	Asp	Asp	Asp	Thr
Pro 145	Pro	Met	Phe	Pro	Gly 150	Val	Glu	Lys	Ser	Ile 155	Trp	Thr	Trp	Asp	Asp 160
Glu	Ala	Gly	Gln	Tyr 165	Tyr	Arg	His	Met	Phe 170	Tyr	His	His	Glu	Pro 175	Asp
Leu	Asn	Leu	Ala 180	Ser	Pro	Ala	Val	Leu 185	Lys	Glu	Val	Glu	Asn 190	Ile	Ile
Ile	Phe	Trp 195	Leu	Lys	Leu	Gly	Val 200	Ser	Gly	Phe	Arg 205	Leu	Asp	Ala	Ala
Ser	His 210	Leu	Thr	Lys	Gln	Ala 215	Gly	Arg	Gly	Asp 220	Glu	Lys	Arg	Gly	Leu
Trp 225	Ile	Leu	Glu	His	Leu 230	Arg	Arg	Leu	Ile	Glu 235	Gln	Arg	Asn	Pro	Asp 240
Ala	Ile	Leu	Leu	Gly 245	Glu	Val	Asp	Val	Glu 250	Val	Glu	Ala	Tyr	Lys 255	Asp
Tyr	Phe	Gly	Gln 260	Asn	Asp	Arg	Leu	Asn 265	Leu	Val	Leu	Asn	Phe 270	Trp	Leu
Asn	Lys	Tyr 275	Phe	Tyr	Val	Ser	Leu 280	Ala	Glu	Lys	Ser	Ala 285	Arg	Pro	Leu
Arg	Asn 290	Ala	Val	Lys	Lys	Met 295	Ile	Val	Pro	Pro	Asp 300	Ser	Cys	Cys	Phe
Ala 305	Asn	Trp	Leu	Arg	Asn 310	His	Asp	Glu	Leu	Asp 315	Leu	Glu	Gly	Ile	Gly
Lys	Lys	Thr	Lys	Gln 325	Thr	Val	Ile	Asp	Ala 330	Phe	Ala	Pro	Asp	Glu 335	Glu
Met	Ser	Val	Tyr 340	Gln	Arg	Gly	Ile	Arg 345	Arg	Arg	Leu	Ala	Pro 350	Met	Leu
Asn	Gly	Asp 355	Arg	Lys	Arg	Leu	Ala 360	Phe	Cys	His	Ala 365	Val	Leu	Phe	Ser
Leu	Pro 370	Gly	Val	Pro	Val	Met 375	Arg	Tyr	Gly	Asp 380	Glu	Ile	Gly	Met	Gly
Asp 385	Asp	Leu	Glu	Leu	Glu 390	Glu	Arg	Tyr	Ala	Val 395	Arg	Thr	Pro	Met	Gln
Trp	Ala	Gly	Ser	Gln	Gly	Gly	Gly	Phe	Ser	Asp	Ala	Asp	Pro	Glu	Thr

				405					410					415			
Phe	Ile	Ala	Pro	Met	Ile	Asp	Arg	Gly	Pro	Tyr	Arg	Tyr	Gln	Lys	Ile		
			420					425					430				
Asn	Val	Ala	Asp	Ser	Leu	Leu	His	Arg	Asn	Ser	Leu	Leu	His	Cys	Ile		
		435					440					445					
Ile	Asp	Ile	Ala	Asn	Thr	Arg	Ser	Glu	Phe	Pro	Glu	Ile	Gly	Val	Ala		
	450					455					460						
Pro	Phe	Arg	Leu	Ile	Asn	Ile	Asp	Ser	Asp	Ala	Val	Leu	Gly	Ile	Tyr		
465					470					475					480		
Tyr	Glu	Thr	Asp	Thr	Arg	Ser	Ile	Leu	Thr	Phe	Val	Asn	Phe	Ser	Asp		
			485						490					495			
Lys	Pro	Val	Asn	Phe	Thr	Ala	Arg	Gly	Ile	Arg	His	Ala	Thr	Trp	Thr		
			500					505					510				
Ala	Cys	Leu	Ala	Asp	Lys	Arg	Tyr	Asn	Asp	Ala	Leu	Val	Cys	Gly	Lys		
		515					520					525					
Thr	Val	Ala	Leu	Asn	Leu	Ser	Gly	Tyr	Gly	Tyr	Arg	Trp	Phe	Trp	Thr		
	530					535					540						
Asp	Arg	Thr	Ala	Leu	Arg												
545					550												

<210> 9178

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 9178

Gln	Gln	Tyr	Leu	Ile	Ser	Gln	Asp	Ile	Gln	Asn	Glu	Gly	Tyr	Gln	Met		
1			5					10						15			
Lys	Leu	Ser	Val	Ile	Ser	Ala	Leu	Leu	Ile	Leu	Ile	Ile	Pro	Thr	Ala		
		20						25					30				
Trp	Ala	Asp	Asn	Asn	Gly	Gly	Leu	Gln	Lys	Gly	Asp	Ala	Pro	Pro	Pro		
		35					40					45					
Pro	His	Ala	Leu	Asp	Ser	Gly	Tyr	Arg	Gly	Thr	Asp	Asp	Ala	Arg	Ile		
	50					55					60						
Met	Thr	Ile	Thr	Gln	Ala	Lys	Glu	Met	His	Asp	Gly	Ala	Ser	Ile	Ser		
65				70					75					80			
Leu	Arg	Gly	Asn	Leu	Ile	Asp	Gly	Asn	Gly	Asp	Lys	Tyr	Val	Phe	Gln		
			85					90						95			
Asp	Lys	Thr	Gly	Lys	Ile	Asp	Val	Ile	Pro	Lys	Ala	Val	Phe	Asp			
		100					105					110					
Asp	Arg	Thr	Val	Glu	Pro	Asp	Asn	Met	Ile	Ser	Ile	Ser	Gly	Ser	Leu		
	115					120						125					
Asp	Lys	Lys	Ser	Ser	Pro	Pro	Val	Val	Arg	Val	Ser	His	Leu	Gln	Lys		
	130					135					140						

145

<210> 9179

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 9179

Thr	Ile	Lys	His	Phe	Gly	Thr	Gly	Ala	Ser	Met	Ser	Ile	Gln	Glu	His		
1			5					10						15			
Val	Ile	Leu	Val	Asn	Asp	Gln	Gly	Lys	Val	Ile	Gly	Thr	Gln	Glu	Lys		
		20						25					30				
Tyr	Ala	Ala	His	Thr	Ser	His	Thr	Pro	Leu	His	Leu	Ala	Phe	Ser	Ser		
		35					40					45					
Trp	Leu	Phe	Asn	Ala	Asn	Gly	Glu	Cys	Leu	Ile	Thr	Arg	Arg	Ala	Leu		
	50					55					60						

Ser Lys Lys Ala Trp Pro Gly Val Trp Thr Asn Ser Val Cys Gly His
65 70 75 80
Pro Gln Ala Asp Glu Ala Thr Glu Gln Ala Ile Ile Arg Arg Cys Arg
85 90 95
Phe Glu Val Gly Ala Glu Ile Thr Asp Ile Thr Pro Ile Ala Pro Glu
100 105 110
Phe Arg Tyr Arg Glu Ala Asp Pro Ser Gly Ile Val Glu Asn Glu Ile
115 120 125
Cys Pro Val Tyr Ala Ala Arg Val Thr Asn Thr Leu Ala Ile Asn Asp
130 135 140
Asp Glu Val Met Glu Tyr Gln Trp Val Glu Leu Asp Ala Leu Phe Arg
145 150 155 160
Ala Leu Asp Ala Thr Pro Trp Ala Phe Ser Pro Trp Met Val Gln Glu
165 170 175
Ala Asn Thr Ala Arg Glu Lys Leu Ser Ala Phe Ala Ala Gln
180 185 190

<210> 9180

<211> 178

<212> PRT

<213> Enterobacter cloacae

<400> 9180

Asp Ser Tyr Ala Met Asn Ile Gly Leu Phe Tyr Gly Ser Ser Thr Cys
1 5 10 15
Tyr Thr Glu Met Ala Ala Glu Lys Ile Arg Asp Ile Ile Gly Pro Glu
20 25 30
Leu Val Thr Leu His Asn Leu Lys Asp Asp Ala Val Ala Leu Met Glu
35 40 45
Gln Tyr Asp Val Leu Ile Leu Gly Ile Pro Thr Trp Asp Phe Gly Glu
50 55 60
Ile Gln Glu Asp Trp Glu Ala Ile Trp Asp Gln Leu Asp Ser Val Asn
65 70 75 80
Phe Glu Gly Lys Ile Ile Ala Met Tyr Gly Met Gly Asp Gln Leu Gly
85 90 95
Tyr Gly Glu Trp Phe Leu Asp Ala Leu Gly Met Leu His Asp Lys Leu
100 105 110
Ala Pro Lys Gly Ala Thr Phe Ile Gly Tyr Trp Pro Thr Glu Gly Tyr
115 120 125
Glu Phe Thr Ser Pro Lys Pro Val Ile Ala Asp Gly Gln Leu Phe Val
130 135 140
Gly Leu Ala Leu Asp Glu Thr Asn Gln Tyr Asp Leu Ser Asp Glu Arg
145 150 155 160
Leu Gln Thr Trp Cys Glu Gln Ile Leu Gly Glu Met Ala Glu Gln Phe
165 170 175
Ser

<210> 9181

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 9181

Ala Pro Cys Pro Met Gln Lys Glu Asn Asn Met Arg Ala Leu Ile Ala
1 5 10 15
Leu Leu Leu Leu Ser Leu Ser Thr Phe Gly Phe Ala Ala Pro Ser Asp
20 25 30
Asp Ala Ser Ser Asp Gln Leu Ala Lys Leu Leu Phe Asn Asp Pro Asn
35 40 45
Ser Pro Arg Thr Gly Ala Ala Ser Pro Lys Leu Thr Ile Val Ser Phe

50	55	60
Thr Asp Tyr Asn Cys	Pro Tyr Cys Lys Gln Phe	Asp Pro Met Leu Glu
65	70	75
Lys Ile Val Gln Glu	Asn Pro Asp Val Gln Leu	Ile Val Lys Leu Leu
	85	90
Pro Phe Lys Gly Gln	Ser Ser Val Asn Ala	Ala Lys Ala Ala Leu Ser
	100	105
Thr Trp Gln Gln Ala	Pro Asp Lys Phe Trp	Ala Leu His Gln Arg Leu
	115	120
Met Met Lys Lys Gly	Tyr His Asp Asp Ala	Ser Ile Ala Ala Ala Lys
	130	135
Val Lys Thr Gly Thr	Asp Ser Ile Lys Thr	Asp Lys Thr Met Asp
145	150	155
Ser Leu Lys Met Asn	Leu Ile Leu Ala Gln	Val Leu Asn Ile Gln Gly
	165	170
Thr Pro Ala Thr Ile	Ile Gly Asp Gln Met	Val Ala Gly Ala Ile Pro
	180	185
Tyr Asp Asp Leu Glu	Gly Leu Val Lys Glu	Gln Leu Ala Asn Ala Arg
	195	200
Gly Lys		205
210		

<210> 9182

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 9182

Ser Glu Lys Ile Thr	Lys Glu Gly Glu Thr	Met Phe Arg His Val Lys
1	5	10
Gln Leu Gln Tyr Thr	Val Arg Val Ala Glu	Pro Asn Pro Gly Leu Ala
	20	25
Asn Leu Leu Leu Glu	Gln Phe Gly Gly Pro	Gln Gly Glu Leu Ala Ala
	35	40
Ala Cys Arg Tyr Phe	Thr Gln Gly Leu Ser	Asp Asp Asp Pro Gly Arg
	50	55
Lys Asp Met Leu Met	Asp Ile Ala Thr Glu	Glu Leu Ser His Leu Glu
65	70	75
Ile Ile Gly Thr Leu	Val Gly Met Leu Asn	Lys Gly Ala Lys Gly Glu
	85	90
Leu Ala Glu Gly Val	Glu Asn Glu Ala Glu	Leu Tyr Arg Ser Met Thr
	100	105
Glu Asn Gly Asn Asp	Ser His Ile Thr Ser	Leu Leu Tyr Gly Gly Gly
	115	120
Thr Pro Leu Thr Asn	Ser Gly Gly Val Pro	Trp Thr Ala Ala Tyr Val
	130	135
Asp Thr Ile Gly Glu	Pro Thr Ala Asp Leu	Arg Ser Asn Ile Ala Ala
145	150	155
Glu Ala Arg Ala Lys	Ile Ile Tyr Glu Arg	Leu Ile Asn Val Thr Asp
	165	170
Asp Pro Gly Val Lys	Asp Ala Leu Ala Phe	Leu Met Thr Arg Glu Ala
	180	185
Ala His Gln Leu Ser	Phe Glu Lys Ala Leu	Gln Ser Ile Arg Asn Asn
	195	200
Phe Pro Pro Gly Lys	Leu Pro Pro Ile Glu	Glu Tyr Thr Asn Lys Tyr
	210	215
Tyr Asn Met Ser Glu	Gly Gly Glu Val Arg	Gly Ser Trp Asn Ser Asp
225	230	235
Lys His Phe Asp Tyr	Val Glu Ser Pro Gln	Pro Ala Val Asp Gly Gly
	245	250
Asp Gly Gly Ala Ser	Val Thr Leu Thr Thr	Glu Gln Ala Thr Leu Val

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<210> 9183
<211> 359
<212> PRT
<213> Enterobacter cloacae
```

$$\begin{aligned} \langle 210 \rangle & 9184 \\ \langle 211 \rangle & 310 \end{aligned}$$

<212> PRT

<213> Enterobacter cloacae

<400> 9184

```

Arg Cys Asn Tyr Pro Ser Asn Leu Thr Pro Asn Lys Glu Leu Ala Met
1      5      10      15
Ser Asp Asn Glu Gln Arg Thr Asn Ala Tyr Pro Thr Pro Pro Phe Pro
20      25      30
Lys Gln Pro Gln Thr Pro Pro Gly Leu Ser Ser Glu Met Glu Pro Val
35      40      45
Pro Asp His Gly Glu Lys Ser Tyr Lys Gly His Gly Arg Leu Ala Gly
50      55      60
Lys Lys Ala Leu Ile Thr Gly Gly Asp Ser Gly Ile Gly Arg Ala Val
65      70      75      80
Ala Ile Ala Tyr Ala Arg Glu Gly Ala Asp Val Ala Ile Asn Tyr Leu
85      90      95
Pro Glu Glu Glu Glu Asp Ala Ala Glu Val Ile Thr Leu Ile Lys Ala
100     105     110
Glu Gly Arg Asn Ala Val Ala Leu Pro Gly Asp Val Arg Asp Glu Thr
115     120     125
Phe Cys Gln Asn Leu Val Glu Gln Ala Val Ser Lys Leu Gly Gly Leu
130     135     140
Asp Ile Leu Val Asn Asn Ala Gly Arg Gln Gln Tyr Arg Glu Ser Leu
145     150     155     160
Glu Glu Leu Thr Thr Glu Asp Phe Asp Ala Thr Phe Lys Thr Asn Val
165     170     175
Tyr Ala Pro Phe Trp Ile Thr Lys Ala Ala Leu Arg His Met Lys Ala
180     185     190
Pro Ala Ser Ile Ile Asn Thr Ser Ser Val Gln Ala Val Lys Pro Ser
195     200     205
Ala Val Leu Leu Asp Tyr Ala Gln Thr Lys Ala Cys Leu Ala Val Phe
210     215     220
Thr Lys Ala Leu Ala Lys Gln Leu Gly Pro Lys Gly Ile Arg Val Asn
225     230     235     240
Ala Val Ala Pro Gly Pro Tyr Trp Thr Val Leu Gln Pro Ser Gly Gly
245     250     255
Gln Pro Gln Glu Lys Val Lys His Phe Gly Glu Ser Thr Pro Leu Gly
260     265     270
Arg Pro Gly Gln Pro Val Glu Ile Ala Pro Leu Tyr Val Thr Leu Ala
275     280     285
Ser Asp Glu Cys Ser Tyr Thr Ser Gly Gln Val Trp Cys Ser Asp Gly
290     295     300
Gly Asp Gly Val Ile
305      310

```

<210> 9185

<211> 509

<212> PRT

<213> Enterobacter cloacae

<400> 9185

```

Gln Ile Thr Ile Ser Thr Asn Cys Tyr Ile Val Thr Phe Asn Ser Ala
1      5      10      15
Leu Leu Asp Ser Lys Ser Ile Ser Pro Glu Leu Arg Ile Ala Lys Met
20      25      30
Lys Lys Leu Thr Leu Pro Lys Asp Phe Leu Trp Gly Gly Ala Val Ala
35      40      45
Ala His Gln Val Glu Gly Gly Trp Asn Lys Gly Gly Lys Gly Pro Ser
50      55      60
Ile Cys Asp Val Leu Thr Gly Gly Ala His Gly Val Pro Arg Glu Ile
65      70      75      80

```


Thr Gln Glu Val Ile Glu Gly Lys Tyr Tyr Pro Asn His Glu Ala Val
 85 90 95
 Asp Phe Tyr Gly His Tyr Lys Glu Asp Ile Lys Leu Phe Ala Glu Met
 100 105 110
 Gly Phe Lys Cys Phe Arg Thr Ser Ile Ala Trp Thr Arg Ile Phe Pro
 115 120 125
 Lys Gly Asp Glu Thr Gln Pro Asn Glu Glu Gly Leu Lys Phe Tyr Asp
 130 135 140
 Asp Met Phe Asp Glu Leu Leu Lys Tyr Asn Ile Glu Pro Val Ile Thr
 145 150 155 160
 Leu Ser His Phe Glu Met Pro Leu His Leu Val Gln Glu Tyr Gly Gly
 165 170 175
 Trp Thr Asn Arg Lys Val Val Asp Phe Phe Val Arg Phe Ser Glu Val
 180 185 190
 Val Phe Glu Arg Tyr Lys Asn Lys Val Lys Tyr Trp Met Thr Phe Asn
 195 200 205
 Glu Ile Asn Asn Gln Arg Asn Trp Arg Ala Pro Leu Phe Gly Tyr Cys
 210 215 220
 Cys Ser Gly Val Val Tyr Thr Glu His Asp Asn Pro Glu Glu Thr Met
 225 230 235 240
 Tyr Gln Val Leu His His Gln Phe Val Ala Ser Ala Leu Ala Val Lys
 245 250 255
 Ala Ala Arg Arg Ile Asn Pro Glu Met Lys Val Gly Cys Met Leu Ala
 260 265 270
 Met Val Ala Leu Tyr Pro Tyr Ser Cys Lys Pro Glu Asp Val Met Phe
 275 280 285
 Ala Gln Glu Ser Met Arg Glu Arg Tyr Val Phe Thr Asp Val Gln Leu
 290 295 300
 Arg Gly Tyr Tyr Pro Ser Tyr Val Leu Asn Glu Trp Glu Arg Arg Gly
 305 310 315 320
 Phe Ser Ile Arg Met Glu Ala Gly Asp Glu Gln Ile Leu Arg Glu Gly
 325 330 335
 Thr Cys Asp Tyr Leu Gly Phe Ser Asp Tyr Met Thr Asn Ala Val Lys
 340 345 350
 Ala Glu Gly Gly Thr Gly Asp Ala Ile Ser Gly Phe Glu Gly Ser Val
 355 360 365
 Pro Asn Pro His Val Lys Ala Ser Asp Trp Gly Trp Gln Ile Asp Pro
 370 375 380
 Val Gly Leu Arg Tyr Ser Leu Cys Glu Leu Tyr Glu Arg Tyr Gln Lys
 385 390 395 400
 Pro Leu Phe Ile Val Glu Asn Gly Phe Gly Ala Tyr Asp Lys Val Glu
 405 410 415
 Glu Asp Gly Ser Ile Asn Asp Asp Tyr Arg Ile Asp Tyr Leu Arg Ala
 420 425 430
 His Val Glu Glu Met Met Lys Ala Val Thr Trp Asp Gly Val Asp Leu
 435 440 445
 Met Gly Tyr Thr Pro Trp Gly Cys Ile Asp Cys Val Ser Phe Thr Thr
 450 455 460
 Gly Gln Tyr Ser Lys Arg Tyr Gly Phe Ile Tyr Val Asn Lys His Asp
 465 470 475 480
 Asp Gly Thr Gly Asp Met Ser Arg Ser Arg Lys Lys Ser Phe Glu Trp
 485 490 495
 Tyr Lys Thr Val Ile Ala Ser Asn Gly Glu Thr Leu
 500 505

<210> 9186

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 9186

Ile	Phe	Arg	Val	Pro	Arg	Arg	Pro	Leu	Ser	Ala	Thr	Arg	Trp	Trp	Arg
1				5					10					15	
Ala	Pro	Phe	Arg	Met	Thr	Thr	Trp	Arg	Gly	Trp	Ser	Lys	Asn	Ser	Trp
			20					25					30		
Gln	Thr	Pro	Val	Ala	Ser	Lys	Leu	Pro	Arg	Leu	Leu	Arg	Glu	Leu	Gly
		35					40					45			
Val	Trp	Leu	Leu	Ile	Gly	Val	Ala	Val	Ser	Leu	Ala	Val	Asp	Tyr	Phe
	50				55						60				
Arg	Gln	Pro	Ala	Leu	Pro	Gln	Asn	Phe	Ser	Ala	Thr	Ala	Leu	His	Thr
65					70				75					80	
Leu	Asp	Gly	Gln	Pro	Val	Asp	Leu	Ile	Ala	Met	Ser	Lys	Glu	Arg	Pro
			85						90					95	
Leu	Leu	Val	Tyr	Val	Trp	Ala	Thr	Trp	Cys	Gly	Val	Cys	Arg	Tyr	Thr
		100						105					110		
Thr	Pro	Ser	Val	Ala	Ala	Leu	Ala	Ala	Asp	Gly	Gly	Asn	Val	Met	Ser
		115					120					125			
Val	Ala	Leu	Arg	Ser	Gly	Asp	Asn	Ala	Thr	Leu	Glu	Thr	Trp	Met	Arg
	130					135					140				
Lys	Lys	Lys	Ala	Met	Met	Pro	Thr	Val	Asn	Asp	Ala	Ser	Gly	Glu	Leu
145					150					155					160
Ala	Arg	Glu	Trp	Asp	Val	Lys	Val	Thr	Pro	Thr	Leu	Val	Val	Ile	Ser
			165						170					175	
His	Gly	Glu	Val	Lys	Ser	Ile	Thr	Thr	Gly	Trp	Thr	Ser	Gly	Trp	Gly
		180					185						190		
Met	Arg	Leu	Arg	Leu	Trp	Leu	Ala	Ser							
		195					200								

<210> 9187

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 9187

Tyr	Ala	Val	Ala	Ile	Thr	Asn	Ser	Leu	Thr	Glu	Gln	Leu	Ala	Lys	Arg
1				5					10					15	
Met	Thr	Val	Asp	Thr	Gly	Met	Arg	Met	Leu	Val	Ser	Phe	Gly	Val	Val
		20						25					30		
Leu	Ile	Leu	Asn	Leu	Ile	Phe	Leu	Met	Gly	Arg	His	Ile	Thr	Ile	Lys
		35					40					45			
Val	Met	Gly	Phe	Leu	Val	Phe	Pro	Leu	Ile	Ala	Tyr	Phe	Leu	Phe	Val
	50					55					60				
Ser	Leu	Tyr	Leu	Thr	Gly	Ser	Trp	Gln	Pro	Ser	Leu	Leu	Thr	Ser	Gln
65				70					75					80	
Met	Ala	Phe	Asp	Gln	His	Thr	Leu	His	Gln	Val	Trp	Ile	Ser	Ile	Pro
			85						90					95	
Val	Met	Val	Phe	Ala	Phe	Ser	His	Thr	Pro	Ile	Ile	Ser	Thr	Phe	Ala
		100						105					110		
Val	Asp	Arg	Arg	Glu	Lys	Tyr	Gly	Glu	Glu	Ala	Met	Gly	Lys	Cys	Lys
		115					120					125			
Lys	Ile	Met	Lys	Val	Ala	Tyr	Leu	Ile	Ile	Cys	Leu	Ser	Val	Leu	Phe
	130					135					140				
Phe	Val	Phe	Ser	Cys	Leu	Leu	Ser	Ile	Pro	Pro	Ser	Tyr	Ile	Val	Ala
145					150					155					160
Ala	Lys	Glu	Glu	Gly	Val	Thr	Ile	Leu	Ser	Ala	Leu	Ser	Met	Met	Pro
			165					170					175		
Ser	Ser	Pro	Ala	Trp	Leu	Gly	Ile	Ser	Gly	Ile	Ile	Val	Ala	Ile	Ile
		180					185						190		
Ala	Met	Ser	Lys	Ser	Phe	Leu	Gly	Thr	Tyr	Phe	Gly	Val	Ile	Glu	Gly
		195					200					205			
Ala	Thr	Glu	Ile	Val	Lys	Ser	Ser	Leu	Asn	Gln	Val	Gly	Val	Lys	Lys
	210						215					220			

Ser Arg Ala Phe Asn Arg Ala Val Ser Ile Leu Gly Val Ser Leu Ile
 225 230 235 240
 Thr Phe Ala Val Cys Cys Ile Asn Pro Asn Ala Ile Ser Met Ile Tyr
 245 250 255
 Ala Ile Ser Gly Pro Leu Ile Ala Met Ile Leu Phe Ile Met Pro Thr
 260 265 270
 Leu Ser Thr Tyr Leu Ile Pro Ser Leu Lys Pro Tyr Arg Ser Ile Gly
 275 280 285
 Asn Leu Leu Thr Leu Ile Val Gly Val Leu Cys Val Ser Val Met Phe
 290 295 300
 Val Gly
 305

<210> 9188

<211> 178

<212> PRT

<213> Enterobacter cloacae

<400> 9188

Pro Asp Asn Lys Ser Gln Glu Leu Ile Met Asn His Val Glu His Tyr
 1 5 10 15
 His Asp Trp Leu Arg Asp Ala His Ala Met Glu Lys Gln Ala Glu Ser
 20 25 30
 Met Leu Glu Ser Met Ala Ser Arg Ile Asp Asn Tyr Pro Asp Leu Arg
 35 40 45
 Ala Arg Ile Glu Gln His Val Asn Glu Thr Lys His Gln Ile Thr Val
 50 55 60
 Leu Glu Glu Ile Leu Asp Arg Asn Asp Ile Ser Arg Ser Val Ile Lys
 65 70 75 80
 Asp Ser Met Ser Lys Met Ala Ala Leu Gly Gln Ser Ile Gly Gly Met
 85 90 95
 Phe Pro Ser Asp Glu Ile Val Lys Gly Ser Ile Ser Gly Tyr Val Phe
 100 105 110
 Glu Gln Phe Glu Ile Ala Cys Tyr Thr Ser Leu Leu Ala Ala Ala Lys
 115 120 125
 Gln Ala Gly Asp Thr Ala Ser Ile Pro Ala Ile Glu Ser Ile Leu Glu
 130 135 140
 Glu Glu Arg Gln Met Ala Asp Trp Leu Leu Gln His Ile Pro Gln Thr
 145 150 155 160
 Thr Glu Gln Phe Leu Leu Arg Ser Asp Ala Asp Gly Val Glu Ala Lys
 165 170 175
 Lys

<210> 9189

<211> 484

<212> PRT

<213> Enterobacter cloacae

<400> 9189

Gly Cys Leu Ala Met Pro Cys Ala Leu Ser Val Pro Glu Val Arg Ser
 1 5 10 15
 Met Phe Glu Leu Asp Ala Phe His Leu Ala Arg Ile Gln Phe Ala Phe
 20 25 30
 Thr Val Ser Phe His Ile Leu Phe Pro Ala Ile Thr Ile Gly Leu Ala
 35 40 45
 Ser Tyr Leu Val Val Leu Glu Gly Met Trp Leu Arg Thr Lys Asn Asp
 50 55 60
 Val Trp Arg Ser Leu Tyr His Phe Trp Leu Lys Ile Phe Ala Val Asn
 65 70 75 80
 Phe Gly Met Gly Val Val Ser Gly Leu Val Met Ala Tyr Gln Phe Gly

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<210> 9190
<211> 333
<212> PRT
<213> Enterobacter cloacae
```

<400> 9190
Ala Ile Gln Asp Ile Thr Met Ala Phe Thr Pro Phe Ser Pro Arg Gln
1 5 10 15
Pro Ala Ala Ser Ala Arg Leu Pro Leu Thr Leu Ile Thr Leu Asp Asp

			20					25				30			
Trp	Ala	Leu	Ala	Thr	Leu	Thr	Gly	Ala	Asp	Ser	Glu	Lys	Tyr	Leu	Gln
	35						40					45			
Gly	Gln	Val	Thr	Ala	Asp	Val	Ala	Gln	Leu	Thr	Glu	His	Gln	His	Leu
	50					55					60				
Leu	Ala	Ala	His	Cys	Asp	Pro	Lys	Gly	Lys	Met	Trp	Ser	Asn	Leu	Arg
65				70					75					80	
Leu	Phe	Arg	Arg	Gln	Asp	Gly	Phe	Ala	Phe	Ile	Glu	Arg	Arg	Ser	Leu
				85				90						95	
Arg	Asp	Ala	Gln	Leu	Lys	Glu	Leu	Lys	Lys	Tyr	Ala	Val	Phe	Ser	Lys
			100					105					110		
Val	Thr	Ile	Ala	Leu	Asp	Asp	Glu	Tyr	Val	Leu	Leu	Gly	Val	Ala	Gly
	115						120					125			
Phe	Gln	Ala	Arg	Ala	Ala	Leu	Lys	Asn	Leu	Phe	Ala	Glu	Leu	Pro	Asp
	130					135					140				
Ala	Glu	Lys	Gln	Leu	Val	Ser	Glu	Gly	Ala	Thr	Ser	Ile	Leu	Trp	Phe
145				150					155					160	
Glu	His	Pro	Ala	Glu	Arg	Phe	Leu	Leu	Val	Thr	Asp	Glu	Ala	Thr	Ala
				165				170						175	
Glu	Arg	Val	Thr	Asp	Ala	Leu	Arg	Gly	Glu	Ala	Gln	Leu	Asn	Asn	Ser
			180					185					190		
Gln	Gln	Trp	Leu	Ala	Leu	Asn	Ile	Glu	Ala	Gly	Leu	Pro	Val	Ile	Asp
	195					200					205				
Ala	Ala	Asn	Ser	Ala	Gln	Phe	Ile	Pro	Gln	Ala	Thr	Asn	Ile	Gln	Ala
	210					215				220					
Leu	Gly	Gly	Ile	Ser	Phe	Lys	Lys	Gly	Cys	Tyr	Thr	Gly	Gln	Glu	Met
225				230					235					240	
Val	Ala	Arg	Ala	Lys	Phe	Arg	Gly	Ala	Asn	Lys	Arg	Ala	Leu	Trp	Thr
				245				250						255	
Leu	Ala	Gly	His	Ala	Ser	Arg	Val	Pro	Glu	Ala	Gly	Glu	Asp	Leu	Glu
			260					265					270		
Met	Lys	Met	Gly	Glu	Asn	Trp	Arg	Arg	Thr	Gly	Thr	Val	Leu	Ala	Ala
	275					280						285			
Val	Gln	Leu	Asp	Asp	Gly	Arg	Leu	Leu	Val	Gln	Val	Val	Met	Asn	Asn
	290				295					300					
Asp	Met	Glu	Pro	Asp	Ser	Val	Phe	Arg	Val	Arg	Asp	Asp	Ala	Asn	Thr
305				310					315					320	
Leu	Ser	Ile	Glu	Pro	Leu	Pro	Tyr	Ser	Leu	Glu	Asp				
				325				330							

<210> 9191

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 9191

Cys	Pro	Thr	Ala	Ser	Leu	Ala	Ile	Val	Ser	Met	Phe	Ser	His	Ser	Ala
1			5					10					15		
Ile	Ala	Ser	Leu	Asn	Asn	Leu	Glu	Met	Val	Tyr	Asn	Tyr	Val	Ile	
			20				25					30			
Lys	Asn	Arg	Asp	Lys	Val	Met	Tyr	Met	Thr	Ile	Arg	Glu	Leu	Ala	Asp
	35					40					45				
Ala	Ala	Gly	Val	Ser	Thr	Thr	Thr	Ile	Leu	Arg	Phe	Cys	Arg	Lys	Leu
	50				55			60							
Asn	Cys	Asp	Gly	Tyr	Ser	Glu	Phe	Arg	Val	Arg	Phe	Lys	Leu	Tyr	Leu
65				70				75						80	
Glu	Gln	Asn	Glu	Pro	Gln	Gln	Ala	Asn	Phe	Gly	Ala	Ser	Glu	Ile	Ile
				85				90					95		
Ser	Phe	Phe	Lys	Ser	Val	Asn	Asn	Glu	Glu	Phe	Asp	Ala	Leu	Leu	Asp
			100				105					110			
Lys	Ala	Val	Asp	Ile	Ile	Leu	Ser	Ser	Glu	Arg	Ile	Ile	Phe	Val	Gly

		115						120				125					
Ala	Gly	Thr	Ser	Gly	Ser	Leu	Ala	Lys	Tyr	Gly	Ala	Arg	Phe	Phe	Ser		
	130					135					140						
Asn	Ile	Gly	Lys	Phe	Ser	Asn	His	Ile	Asp	Asp	Pro	Tyr	Phe	Pro	Val		
145					150					155					160		
Thr	Asn	Asp	Met	Ala	Lys	Asn	Ala	Leu	Ala	Ile	Val	Leu	Ser	Val	Ser		
					165				170					175			
Gly	Glu	Thr	Glu	Glu	Ile	Leu	Arg	Phe	Ala	Ser	Gln	Phe	Ser	Leu	His		
				180				185					190				
His	Cys	Lys	Val	Leu	Ser	Val	Thr	Ser	His	Glu	His	Ser	Arg	Leu	Ala		
		195					200					205					
Lys	Leu	Ala	Asp	Phe	Asn	Leu	Ser	Trp	His	Val	Pro	Gln	Thr	Arg	Ile		
	210					215					220						
Gly	Gly	Val	Tyr	Asp	Ile	Thr	Thr	Gln	Ile	Pro	Val	Ile	Tyr	Ile	Leu		
225					230					235					240		
Glu	Ser	Leu	Gly	Arg	Lys	Leu	Ala	Lys	Lys	Leu	Thr	Glu					
				245					250								

```
<210> 9192
<211> 125
<212> PRT
<213> Enterobacter cloacae
```

<400> 9192																
Ile	Phe	Glu	Ala	Asn	Met	Ile	Lys	Arg	Gln	Arg	Asn	Ala	Ile	Leu	Leu	
1				5					10					15		
Val	Ala	Leu	Ala	Cys	Leu	Val	Val	Leu	Ile	Cys	Thr	Ala	Gln	Arg	Met	
			20					25					30			
Ala	Gly	Met	His	Ala	Leu	Val	Met	Asn	Val	Thr	Ala	Thr	Ser	Gln	Ser	
		35					40					45				
Val	Gln	Gln	Gly	Gln	Glu	Ser	Thr	Asp	Ala	Pro	Val	Thr	Pro	Cys	Glu	
	50					55					60					
Leu	Ser	Ala	Lys	Ser	Leu	Met	Ser	Val	Pro	Pro	Val	Leu	Phe	Glu	Gly	
65					70				75						80	
Ala	Leu	Ile	Ala	Val	Thr	Leu	Leu	Leu	Ala	Leu	Leu	Ala	Ala	Ser	Pro	
				85					90					95		
Pro	Arg	Arg	Glu	Arg	Gln	Trp	Pro	Pro	Arg	Val	Ile	Ser	Pro	Pro	Arg	
			100					105					110			
Leu	Arg	Val	His	Leu	Arg	Leu	Cys	Val	Phe	Arg	Glu					
		115					120					125				

```
<210> 9193
<211> 671
<212> PRT
<213> Enterobacter cloacae
```

<400> 9193																
Phe	Met	Phe	Thr	Val	Phe	Arg	Arg	Leu	Leu	Val	Cys	Leu	Leu	Trp	Leu	
1				5					10					15		
Trp	Leu	Pro	Leu	Ser	Gln	Ala	Ala	Asp	Ser	Gly	Trp	Leu	Arg	Ala	Ala	
			20					25					30			
Asp	Asn	Gln	His	Ala	Ser	Val	Arg	Leu	Arg	Ala	Gln	Pro	Glu	Ser	Thr	
		35					40					45				
Gly	Glu	Thr	Arg	Leu	Leu	Leu	Asp	Val	Ala	Leu	Gln	Lys	Gly	Trp	Lys	
	50					55					60					
Thr	Tyr	Trp	Arg	Ser	Pro	Gly	Glu	Gly	Gly	Val	Ala	Pro	Ala	Ile	Lys	
65					70					75				80		
Trp	His	Gln	Pro	Val	Glu	Ala	Lys	Trp	Arg	Trp	Pro	Val	Pro	Gln	Arg	
				85					90					95		
Phe	Asp	Val	Ala	Gly	Ile	Thr	Thr	Gln	Gly	Tyr	His	Gly	Asp	Val	Ser	
			100					105					110			

Phe	Pro	Ile	Thr	Leu	Arg	Gly	Asp	Val	Pro	Lys	Ile	Leu	Ser	Gly	Val
		115					120					125			
Leu	Thr	Leu	Ser	Thr	Cys	Ser	Asn	Val	Cys	Ile	Leu	Thr	Asp	Tyr	Pro
		130					135				140				
Phe	Ser	Leu	Asn	Met	Thr	Ala	Ser	Ala	Gly	Ala	Gly	Phe	Asp	Tyr	Asp
145					150					155					160
Phe	Ser	Arg	Ala	Met	Gly	Thr	Leu	Pro	Leu	Ser	Gly	Gly	Leu	Thr	Ser
				165					170					175	
Thr	Leu	Asn	Ala	Thr	Tyr	Ala	Pro	Gly	Lys	Leu	Thr	Val	Thr	Ala	Gln
			180					185					190		
Arg	Asp	Ala	Gly	Trp	Gln	Ala	Pro	Ser	Leu	Phe	Ile	Asp	Gly	Met	Asp
		195					200					205			
Asp	Val	Asp	Phe	Gly	Lys	Pro	Ala	Leu	Thr	Val	Arg	Gly	Asp	Ser	Leu
	210					215					220				
Val	Ala	Thr	Val	Pro	Val	Thr	Asp	Ser	Trp	Gly	Glu	Ala	Ala	Pro	Asn
225					230					235					240
Leu	Ser	Gly	Lys	Thr	Leu	Ser	Leu	Val	Leu	Ala	Asp	Ser	Gly	Gln	Ala
				245					250					255	
Gln	Glu	Ser	Ser	Leu	Ser	Ile	Gln	Pro	Gly	Asn	Ala	Ala	Pro	Thr	Leu
			260					265					270		
Ser	Leu	Gly	Trp	Val	Leu	Leu	Met	Ala	Leu	Ala	Gly	Gly	Leu	Ile	Leu
		275					280					285			
Asn	Val	Met	Pro	Cys	Val	Leu	Pro	Val	Leu	Ala	Met	Lys	Leu	Gly	Thr
	290					295					300				
Leu	Met	Gln	Thr	Glu	Arg	Gln	Ala	Arg	Gly	Gln	Val	Arg	Arg	Gln	Phe
305					310					315					320
Leu	Ala	Ser	Val	Ala	Gly	Ile	Val	Ile	Ser	Phe	Leu	Ala	Leu	Ala	Leu
				325					330					335	
Met	Met	Thr	Val	Leu	Arg	Leu	Gly	Asn	Gln	Ala	Leu	Gly	Trp	Gly	Ile
			340					345					350		
Gln	Phe	Gln	Asn	Pro	Trp	Phe	Ile	Gly	Ala	Met	Ala	Met	Val	Met	Val
		355					360					365			
Leu	Phe	Ser	Ala	Ser	Leu	Leu	Gly	Leu	Phe	Glu	Ile	Arg	Leu	Pro	Ser
	370					375				380					
Val	Ala	Ser	Thr	Phe	Leu	Ala	Thr	Arg	Gly	Gly	Asn	Gly	Leu	Ala	Gly
385					390					395					400
His	Phe	Trp	Gln	Gly	Ala	Phe	Ala	Thr	Leu	Leu	Ala	Thr	Pro	Cys	Thr
				405					410					415	
Ala	Pro	Phe	Leu	Gly	Thr	Ala	Val	Ser	Val	Ala	Leu	Ala	Ala	Pro	Leu
			420					425					430		
Pro	Leu	Leu	Trp	Gly	Ile	Phe	Leu	Ala	Met	Gly	Ile	Gly	Met	Ser	Leu
		435					440					445			
Pro	Trp	Leu	Leu	Val	Ala	Val	Trp	Pro	Gly	Leu	Ala	Gln	Arg	Leu	Pro
	450					455					460				
Arg	Pro	Gly	Arg	Trp	Met	Asn	Val	Val	Arg	Val	Val	Leu	Gly	Met	Met
465					470					475					480
Met	Leu	Gly	Ser	Ser	Leu	Trp	Leu	Leu	Ser	Leu	Leu	Thr	Val	His	Ile
				485					490					495	
Gly	Ser	Leu	Pro	Val	Ile	Thr	Leu	Gly	Val	Leu	Leu	Ile	Leu	Thr	Leu
			500					505					510		
Leu	Leu	Val	Thr	Ala	Trp	Arg	Tyr	Arg	Trp	Gln	Thr	Ala	Leu	Arg	Ala
		515					520					525			
Gly	Val	Leu	Ala	Val	Val	Val	Ala	Gly	Ala	Val	Ala	Phe	Val	Ser	Gly
	530					535					540				
Ser	Gly	Gly	Glu	Gly	Ser	Arg	Arg	Asp	Arg	Ile	His	Trp	Gln	Pro	Leu
545					550					555					560
Ser	Glu	Gln	Ala	Ile	Ala	Arg	Ala	Leu	Ala	Glu	Asn	Lys	Arg	Val	Phe
				565					570					575	
Val	Asp	Val	Thr	Ala	Asp	Trp	Cys	Val	Thr	Cys	Lys	Ala	Asn	Lys	Tyr
			580					585					590		
Asn	Val	Leu	Leu	Arg	Asp	Asp	Val	Gln	Asp	Ala	Leu	Ser	Ala	Pro	Asp

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<210> 9194
<211> 261
<212> PRT
<213> Enterobacter cloacae
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<210> 9195
<211> 229
<212> PRT
<213> Enterobacter cloacae
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<400> 9195
Ser Ser Phe Val Phe Pro Glu Leu Ser Met Val Ser Arg Pro Leu Ile
1 5 10 15
Ala Gln Gly Tyr Ser Leu Ala Glu Glu Val Ala Asn Ser Ile Ser His
20 25 30


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<210> 9196
<211> 291
<212> PRT
<213> Enterobacter cloacae
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Thr 1	Thr	Ala	Leu	Ile 5	Tyr	Ala	Trp	Cys	Arg 10	Cys	Cys	Leu	Asp	Thr 15	Ala
Ile	Phe	Gln	Arg 20	Arg	Lys	Tyr	Thr	Pro 25	Met	Ser	Arg	Arg	Asn 30	Ala	Cys
Gly	Ser	Tyr 35	Thr	Asn	Ser	Thr	Thr 40	Leu	Ala	Arg	Glu	Cys 45	Arg	Arg	Ile
Val	Thr 50	Gly	Thr	Tyr	Met	Lys 55	Lys	Ser	Leu	Ala	Leu 60	Phe	Thr	Leu	Leu
Ala 65	Ala	Ser	Val	Ser	Gly 70	Phe	Ala	His	Ala	Asp 75	Asp	Ala	Ala	Ile	Lys 80
Gln	Ser	Leu	Thr	Lys 85	Leu	Gly	Val	Ala	Ser 90	Ser	Glu	Ile	Gln 95	Pro	Ala
Pro	Val	Ala	Gly 100	Met	Lys	Thr	Val	Leu 105	Thr	Asn	Ser	Gly	Val 110	Leu	Tyr
Val	Thr	Glu 115	Asp	Gly	Lys	His	Ile 120	Ile	Gln	Gly	Pro	Met 125	Tyr	Asp	Val
Ser	Gly 130	Ala	Gln	Pro	Val	Asn 135	Val	Thr	Asn	Gln	Leu 140	Leu	Met	Lys	Asn
Leu 145	Asn	Ala	Leu	Glu	Lys 150	Glu	Met	Ile	Val	Tyr 155	Lys	Ala	Ala	Gln	Glu 160
Lys	His	Val	Ile	Thr 165	Val	Phe	Thr	Asp	Ile 170	Thr	Cys	Gly	Tyr	Cys 175	His
Lys	Leu	His	Glu 180	Glu	Met	Lys	Asp 185	Tyr	Asn	Ala	Leu	Gly	Ile 190	Thr	Val
Arg	Tyr	Leu 195	Ala	Phe	Pro	Arg	Ala 200	Gly	Val	Gln	Ser	Gln 205	Pro	Glu	Gln
Asp	Met 210	Lys	Ala	Ile	Trp	Cys 215	Ala	Lys	Asp	Arg	Asn 220	Lys	Ala	Phe	Asp

Asp Ala Met Asn Gly Lys Gly Val Lys Pro Ala Ser Cys Asp Ile Asp
 225 230 235 240
 Ile Ala Asn His Tyr Ala Leu Gly Val Gln Phe Gly Val Ser Gly Thr
 245 250 255
 Pro Ala Ile Val Leu Ser Asn Gly Tyr Val Val Pro Gly Tyr Gln Gly
 260 265 270
 Pro Lys Glu Met Lys Ala Phe Leu Asp Glu His Gln Lys Gln Met Gly
 275 280 285
 Gly Lys
 290

<210> 9197

<211> 359

<212> PRT

<213> Enterobacter cloacae

<400> 9197

Lys Thr Ala Phe Arg Thr Ser Arg Ser Ala Leu Thr Phe Leu Gly Gly
 1 5 10 15
 Ile Phe Asp Tyr Asp Ala Lys Lys Glu Arg Leu Glu Glu Val Asn Ala
 20 25 30
 Glu Leu Glu Gln Pro Asp Val Trp Asn Glu Pro Glu Arg Ala Gln Ala
 35 40 45
 Leu Gly Lys Glu Arg Ser Ser Leu Glu Ala Ile Val Asp Thr Leu Asp
 50 55 60
 Gln Met Ala Gln Gly Leu Glu Asp Val Ser Gly Leu Leu Glu Leu Ala
 65 70 75 80
 Val Glu Ala Asp Asp Glu Glu Thr Phe Asn Glu Ala Val Ala Glu Leu
 85 90 95
 Asp Val Leu Glu Lys Leu Ala Gln Leu Glu Phe Arg Arg Met Phe
 100 105 110
 Ser Gly Glu Tyr Asp Ser Ala Asp Cys Tyr Leu Asp Ile Gln Ala Gly
 115 120 125
 Ser Gly Gly Thr Glu Ala Gln Asp Trp Ala Ser Met Leu Met Arg Met
 130 135 140
 Tyr Leu Arg Trp Ala Glu Ala Arg Gly Phe Lys Thr Glu Ile Ile Glu
 145 150 155 160
 Glu Ser Glu Gly Glu Val Ala Gly Ile Lys Ser Val Thr Ile Lys Ile
 165 170 175
 Ile Gly Asp Tyr Ala Tyr Gly Trp Leu Arg Thr Glu Thr Gly Val His
 180 185 190
 Arg Leu Val Arg Lys Ser Pro Phe Asp Ser Gly Gly Arg Arg His Thr
 195 200 205
 Ser Phe Ser Ser Ala Phe Val Tyr Pro Glu Val Asp Glu Asp Ile Asp
 210 215 220
 Ile Asp Ile Asn Pro Ala Asp Leu Arg Ile Asp Val Tyr Arg Ala Ser
 225 230 235 240
 Gly Ala Gly Gly Gln His Val Asn Arg Thr Glu Ser Ala Val Arg Ile
 245 250 255
 Thr His Ile Pro Thr Gly Leu Val Thr Gln Cys Gln Asn Asp Arg Ser
 260 265 270
 Gln His Lys Asn Lys Asp Gln Ala Met Lys Gln Met Lys Ala Lys Leu
 275 280 285
 Tyr Glu Leu Glu Met Gln Lys Lys Asn Ala Glu Lys Gln Ala Met Glu
 290 295 300
 Asp Asn Lys Ser Asp Ile Gly Trp Gly Ser Gln Ile Arg Ser Tyr Val
 305 310 315 320
 Leu Asp Asp Ser Arg Ile Lys Asp Leu Arg Thr Gly Val Glu Thr Arg
 325 330 335
 Asn Thr Gln Ala Val Leu Asp Gly Ser Leu Asp Gln Phe Ile Glu Ala
 340 345 350

Ser Leu Lys Ala Gly Leu
355

<210> 9198

<211> 509

<212> PRT

<213> Enterobacter cloacae

<400> 9198

Gly	Thr	Asn	Met	Ser	Glu	Gln	Gln	Ala	Gln	Gly	Ala	Asp	Ala	Val	Val
1				5				10						15	
Asp	Leu	Asn	Asn	Glu	Leu	Lys	Thr	Arg	Arg	Glu	Lys	Leu	Ala	Ala	Leu
		20						25					30		
Arg	Glu	Gln	Gly	Val	Pro	Phe	Pro	Asn	Asp	Phe	Arg	Arg	Asp	His	Thr
		35					40					45			
Ser	Asp	Gln	Leu	His	Ala	Asp	Phe	Asp	Gly	Lys	Glu	Asn	Glu	Glu	Leu
	50					55					60				
Glu	Ala	Leu	Asn	Val	Glu	Val	Ser	Val	Ala	Gly	Arg	Met	Met	Thr	Arg
65					70					75					80
Arg	Ile	Met	Gly	Lys	Ala	Ser	Phe	Val	Thr	Leu	Gln	Asp	Val	Gly	Gly
			85						90					95	
Arg	Ile	Gln	Leu	Tyr	Val	Ser	Arg	Asp	Asp	Leu	Pro	Glu	Gly	Ile	Tyr
		100						105					110		
Asn	Glu	Gln	Phe	Lys	Lys	Trp	Asp	Leu	Gly	Asp	Ile	Leu	Gly	Ala	Lys
		115					120					125			
Gly	Lys	Leu	Phe	Lys	Thr	Lys	Thr	Gly	Glu	Leu	Ser	Ile	His	Cys	Thr
	130					135					140				
Glu	Leu	Arg	Leu	Leu	Thr	Lys	Ala	Leu	Arg	Pro	Leu	Pro	Asp	Lys	Phe
145					150					155					160
His	Gly	Leu	Gln	Asp	Gln	Glu	Ala	Arg	Tyr	Arg	Gln	Arg	Tyr	Leu	Asp
			165						170					175	
Leu	Ile	Ser	Asn	Asp	Glu	Ser	Arg	Lys	Thr	Phe	Lys	Ile	Arg	Ser	Gln
		180						185					190		
Ile	Met	Ala	Gly	Ile	Arg	Gln	Phe	Met	Val	Asn	Arg	Asp	Phe	Met	Glu
	195						200					205			
Val	Glu	Thr	Pro	Met	Met	Gln	Val	Ile	Pro	Gly	Gly	Ala	Ser	Ala	Arg
	210					215					220				
Pro	Phe	Ile	Thr	His	His	Asn	Ala	Leu	Asp	Leu	Asp	Met	Tyr	Leu	Arg
225					230					235					240
Ile	Ala	Pro	Glu	Leu	Tyr	Leu	Lys	Arg	Leu	Val	Val	Gly	Gly	Phe	Asp
			245						250					255	
Arg	Val	Phe	Glu	Ile	Asn	Arg	Asn	Phe	Arg	Asn	Glu	Gly	Ile	Ser	Val
		260						265					270		
Arg	His	Asn	Pro	Glu	Phe	Thr	Met	Met	Glu	Leu	Tyr	Met	Ala	Tyr	Ala
	275						280					285			
Asp	Tyr	Lys	Asp	Leu	Ile	Glu	Leu	Thr	Glu	Ser	Leu	Phe	Arg	Thr	Leu
	290					295					300				
Ala	Gln	Asp	Ile	Leu	Gly	Thr	Thr	Gln	Val	Pro	Tyr	Gly	Glu	Glu	Val
305					310					315					320
Phe	Asp	Phe	Gly	Lys	Pro	Phe	Glu	Lys	Leu	Thr	Met	Arg	Glu	Ala	Ile
			325						330					335	
Lys	Lys	Tyr	Arg	Pro	Glu	Thr	Asn	Met	Ala	Asp	Leu	Asp	Asn	Phe	Asp
		340						345					350		
Ser	Ala	Lys	Ala	Ile	Ala	Glu	Ser	Ile	Gly	Ile	Lys	Val	Glu	Lys	Ser
	355						360					365			
Trp	Gly	Leu	Gly	Arg	Ile	Val	Thr	Glu	Ile	Phe	Glu	Glu	Val	Ala	Glu
	370					375					380				
Ala	His	Leu	Ile	Gln	Pro	Thr	Phe	Ile	Thr	Glu	Tyr	Pro	Ala	Glu	Val
385					390					395					400
Ser	Pro	Leu	Ala	Arg	Arg	Asn	Asp	Glu	Asn	Pro	Glu	Ile	Thr	Asp	Arg
			405						410					415	

Phe Glu Phe Phe Ile Gly Gly Arg Glu Ile Gly Asn Gly Phe Ser Glu
 420 425 430
 Leu Asn Asp Ala Glu Asp Gln Ala Gln Arg Phe Gln Asp Gln Val Asn
 435 440 445
 Ala Lys Ala Ala Gly Asp Asp Glu Ala Met Phe Phe Asp Glu Asp Tyr
 450 455 460
 Val Thr Ala Leu Glu His Gly Leu Pro Pro Thr Ala Gly Leu Gly Ile
 465 470 475 480
 Gly Ile Asp Arg Met Val Met Leu Phe Thr Asn Ser His Thr Ile Arg
 485 490 495
 Asp Val Ile Leu Phe Pro Ala Met Arg Pro Val Lys
 500 505

<210> 9199

<211> 212

<212> PRT

<213> Enterobacter cloacae

<400> 9199

Leu Tyr Gln Val Asn Gly Ile Phe Met Lys Lys Thr Val Ile Ala Leu
 1 5 10 15
 Ile Val Ala Asn Val Phe Thr Ala Thr Ser Ala Phe Ala Ala Asp
 20 25 30
 Ala Gly Thr Trp Tyr Ser Gly Ala Lys Phe Gly Trp Ser His Tyr Phe
 35 40 45
 Asp Thr Asn Met Gly Ser Lys Ala Phe Glu Asn Thr His Ser Asp His
 50 55 60
 Phe Asp Phe Asp His Asp Asn Val Ser Gly Gly Val Tyr Thr Gly Tyr
 65 70 75 80
 Gln Ile Thr Pro Trp Leu Ala Val Glu Gly Gly Tyr Asp Tyr Leu Gly
 85 90 95
 Asn Met Gln Ile Lys Gly Gln His Gly Ala Gly Ala Gln Met Lys Thr
 100 105 110
 Gln Gly Leu Gln Leu Ser Leu Lys Ala Ser Tyr Ala Leu Thr Asn Asp
 115 120 125
 Trp Asp Ile Tyr Gly Arg Thr Gly Ala Met Gly Tyr Arg Ala Glu Ser
 130 135 140
 Asp Val Ser Gly His Asn Arg Phe Glu Thr Gly Val Arg Pro Leu Ala
 145 150 155
 Ala Val Gly Thr Glu Tyr Ala Phe Asn Lys Asn Trp Ala Gly Arg Leu
 165 170 175
 Glu Tyr Gln Trp Val Ser Asn Val Gly Asn Val Asn Gln Ile Gly Val
 180 185 190
 Ser Ser Asp Leu Ser Ser Val Thr Ala Gly Leu Ser Tyr Arg Phe Gly
 195 200 205
 Gln Tyr Asp
 210

<210> 9200

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 9200

Ser Lys Tyr Ser Pro Ala Gly Ile Thr Ser Glu Thr Arg Gly Lys Ala
 1 5 10 15
 Met Ala Val Ile Val Ile Thr Gly Gly Thr Ala Gly Val Gly Lys Ala
 20 25 30
 Thr Ala Leu His Phe Ala Lys Ala Gly Tyr Asp Val Gly Ile Ile Ala
 35 40 45
 Arg Asp Glu Gln Ser Leu Arg Ser Thr Glu Glu Glu Leu Cys Arg Phe

50	55	60
Gly Ile Asn Ala Cys Ala Val Gln Ala Asp Val Ala Asp Ser Lys Ala		
65	70	75
Val Thr Asp Ala Ala Asn Glu Ile Glu Tyr Arg Leu Gly Ala Ile Asp		80
	85	90
Val Trp Val Asn Asn Ala Met Gly Gly Met Leu Ala Pro Phe Arg Thr		95
	100	105
Met Ser Pro Glu Glu Phe Arg Arg Val Thr Glu Val Thr Tyr Leu Gly		110
	115	120
Tyr Val Asn Gly Thr Arg Ala Ala Leu Glu Leu Met Thr Pro Arg Asp		125
	130	135
Arg Gly Thr Ile Ile Gln Val Gly Ser Ala Leu Ala Tyr Arg Ser Ile		140
145	150	155
Pro Leu Gln Ser Ala Tyr Cys Gly Ala Lys Ala Ala Ile Arg Gly Phe		160
	165	170
Thr Asp Ala Val Arg Thr Glu Leu Met His Glu Asn Ser Arg Val Gln		175
	180	185
Ile Ala Met Val Gln Met Pro Gly Leu Asn Thr Pro Gln Phe Glu Trp		190
	195	200
Ala Arg Asn Lys Phe Ser Trp Ala Met Arg Pro Val Pro Pro Val Phe		205
	210	215
Gln Pro Glu Val Ala Ala Ser Ala Ile Phe Lys Val Ala Gln Lys Pro		220
225	230	235
Val Arg Glu Leu Trp Val Gly Ser Ser Thr Val Gln Ser Ile Val Gly		240
	245	250
Gln Phe Leu Phe Pro Gly Phe Leu Asp Arg Leu Met Val Lys Lys Ala		255
	260	265
Trp Glu Gly Gln Met Thr Asp Thr Leu Asn Ala Asp Asp Arg Gln Asp		270
	275	280
Tyr Leu Asp Gln Pro Val Asn Asp Leu His Lys Ile His Gly His Phe		285
	290	295
Thr Asp Glu Ala Lys Glu Arg Ala Thr Ser Val Thr Ser Gly Met Pro		300
	305	310
Gly Lys Val Leu Leu Gly Ser Leu Ala Val Thr Gly Ala Ile Val Ala		315
	320	325
Arg Leu Met Leu Ser Arg Arg Arg		330
	335	
	340	345

<210> 9201

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 9201

Arg Gly Gln Ala Asp Arg Leu Arg Val Cys Phe Phe Cys His His Asn		
1	5	10
Asn Tyr Arg Gly Asn Ile Met Asp Gln Glu Leu Leu Asp Ala Gly Tyr		15
	20	25
Arg Ala Tyr Thr Gly Glu Lys Ile Asp Val Tyr Phe Asn Thr Gly Ile		30
	35	40
Cys Lys His Ser Gly Asn Cys Val Arg Gly Ser Ala Ala Leu Phe Asp		45
	50	55
Leu Lys Arg Lys Pro Trp Ile Ala Pro Asp Glu Val Asp Ala Glu Thr		60
65	70	75
Val Val Arg Val Ile Asp Thr Cys Pro Ser Gly Ala Leu Lys Tyr Arg		80
	85	90
		95

Gln Lys

<210> 9202

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 9202

Cys	Arg	Lys	Gln	Asn	Met	Asp	Ile	Asn	Asn	Lys	Ala	Arg	Ile	His	Trp
1				5					10					15	
Ala	Cys	Arg	Arg	Gly	Met	Arg	Glu	Leu	Asp	Ile	Ser	Ile	Met	Pro	Phe
			20					25					30		
Phe	Glu	Tyr	Glu	Tyr	Asp	Ser	Leu	Ser	Asp	Asp	Asp	Lys	Arg	Leu	Phe
		35					40					45			
Val	Arg	Leu	Leu	Glu	Ser	Asp	Asp	Pro	Asp	Leu	Phe	Asn	Trp	Leu	Met
		50				55					60				
Asn	His	Gly	Lys	Pro	Ala	Asp	Thr	Glu	Leu	Gln	Arg	Met	Val	Gln	Leu
65					70					75					80
Ile	Gln	Thr	Arg	Asn	Gln	Glu	Arg	Gly	Pro	Val	Ala	Ile			
				85					90						

<210> 9203

<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 9203

Cys	Ala	Ile	His	Ala	Asp	Arg	Gly	Ala	Val	Leu	Phe	Ala	Gly	Ser	Leu
1				5					10					15	
Thr	Arg	Asn	Pro	Ile	Ile	Ala	Val	Phe	Cys	Leu	Thr	Leu	Thr	Leu	Leu
			20					25					30		
Val	Ala	Gly	Cys	Ser	Gly	Ser	Lys	Ser	Ser	Asp	Met	Gly	Ser	Tyr	Ser
		35					40					45			
Gly	Ala	Val	Tyr	Thr	Val	Lys	Arg	Gly	Asp	Thr	Leu	Tyr	Arg	Ile	Ser
		50				55					60				
Arg	Ala	Thr	Gly	Thr	Ser	Val	Lys	Glu	Leu	Ala	Arg	Leu	Asn	Asn	Ile
65					70					75					80
Ser	Pro	Pro	Tyr	Thr	Ile	Glu	Val	Gly	Gln	Lys	Leu	Lys	Val	Asn	Gly
				85					90					95	
Gly	Ser	Ser	Ser	Gly	Lys	Lys	Ser	Ser	Thr	Arg	Lys	Thr	Ala	Lys	Val
			100					105					110		
Thr	Pro	Ser	Tyr	Gln	Val	Pro	Lys	Ser	Ser	Trp	Pro	Pro	Val	Gly	Gln
		115					120						125		
Arg	Cys	Trp	Ile	Trp	Pro	Ala	Ser	Gly	Lys	Val	Val	Ala	Pro	Tyr	Ser
		130				135					140				
Leu	Ser	Glu	Gly	Gly	Asn	Lys	Gly	Ile	Asp	Ile	Ala	Ala	Ala	Arg	Gly
145					150					155					160
Thr	Pro	Val	Tyr	Ala	Ser	Gly	Ala	Gly	Lys	Val	Val	Tyr	Val	Gly	Asn
				165					170					175	
Gln	Leu	Arg	Gly	Tyr	Gly	Asn	Leu	Ile	Met	Ile	Lys	His	Gly	Glu	Asp
			180					185					190		
Tyr	Ile	Thr	Ala	Tyr	Ala	His	Asn	Asp	Thr	Met	Leu	Val	Asn	Asn	Gly
		195					200					205			
Gln	Asn	Val	Lys	Ala	Gly	Gln	Lys	Ile	Ala	Thr	Met	Gly	Ser	Thr	Gly
		210				215					220				
Thr	Asp	Thr	Val	Lys	Leu	His	Phe	Gln	Ile	Arg	Tyr	Lys	Ala	Thr	Ala
225					230					235					240
Ile	Asp	Pro	Gln	Arg	Tyr	Leu	Pro	Ala	Gln	Gly	Ser	Lys	Pro	Lys	Cys
				245					250					255	

<210> 9204

<211> 234

<212> PRT

<213> Enterobacter cloacae

<400> 9204

Arg Gln Cys Lys Arg Asn His Glu Glu Arg Asn Met Ala Ala Thr Asn
 1 5 10 15
 Gly Met Ile Asp Thr Asp Asp Ala Val Ile Leu Leu Ile Asp His Gln
 20 25 30
 Ser Gly Leu Phe Asn Thr Val Arg Asp Val Pro Val Pro Asp Leu Arg
 35 40 45
 Asn Tyr Val Thr Ala Ile Ala Lys Val Ala Thr Leu Leu Asn Ile Pro
 50 55 60
 Val Ile Thr Thr Ala Ser Val Pro Asp Gly Pro Asn Gly Pro Leu Ile
 65 70 75 80
 Pro Glu Ile His Lys Tyr Ala Pro His Ala Val Tyr Val Pro Arg Thr
 85 90 95
 Gly Gln Ile Asn Thr Trp Asp Asn Pro Ala Phe Val Lys Glu Val Glu
 100 105 110
 Lys Thr Gly Arg Lys Thr Leu Ile Ile Ala Gly Thr Leu Thr Ser Val
 115 120 125
 Cys Met Ala Phe Pro Ala Val Ser Ala Val His Glu Gly Tyr Lys Val
 130 135 140
 Tyr Cys Val Val Asp Ala Ser Gly Asn Trp Ser Lys Ile Ala Thr Asp
 145 150 155 160
 Thr Thr Ile Ala Arg Val Ala Gln Ala Gly Ala Ile Pro Thr Asp Thr
 165 170 175
 Phe Ala Ile Val Ala Glu Leu Met Arg Thr Trp Asn Arg Glu Glu Gly
 180 185 190
 Ser Arg Phe Ala Glu Ile Leu Ala Glu His Val Cys Pro Glu Tyr Lys
 195 200 205
 Cys Leu Ile Glu Ser Phe Gly Lys Ala Gln Glu Ile Ala Arg Thr Gly
 210 215 220
 Pro Glu Thr Asn Leu Glu His Tyr Lys
 225 230

<210> 9205

<211> 152

<212> PRT

<213> Enterobacter cloacae

<400> 9205

Glu Ser Asn Met Asp Met Val Phe Arg Ala Leu Ala Ile Tyr Leu Phe
 1 5 10 15
 Leu Val Ile Val Phe Lys Val Ala Gly Arg Arg Ala Leu Leu Gln Met
 20 25 30
 Thr Ser Phe Asp Leu Ile Leu Leu Leu Ile Ile Ser Glu Ala Thr Gln
 35 40 45
 Gln Ala Leu Leu Gly Glu Asp Phe Ser Ile Thr Gly Ala Met Ile Thr
 50 55 60
 Ile Thr Thr Leu Val Val Val Asp Ile Ile Phe Gly Leu Leu Lys Lys
 65 70 75 80
 Tyr Phe Ser Thr Val Glu Asn Ile Leu Asp Gly Thr Pro Val Ile Leu
 85 90 95
 Val Glu Asn Gly Val Pro Leu Ala Asp Lys Leu Lys Lys Val Asp Val
 100 105 110
 Ser Cys Asp Asp Ile Leu Val Ser Ala Arg Gln Asn His Gly Ile Thr
 115 120 125
 Glu Leu Lys Glu Ile Lys Tyr Ala Ile Leu Glu Arg Asn Gly His Ile
 130 135 140
 Ser Ile Ile Pro Asp Glu Asn
 145 150

<210> 9206
 <211> 93
 <212> PRT
 <213> Enterobacter cloacae

<400> 9206
 Gly Thr Met Glu Ile Leu Glu Gly His Asn Lys Phe Tyr Val Asn Asp
 1 5 10 15
 Ala Glu Gly Asn Gln Val Ala Glu Ile Val Phe Val Pro Thr Gly Glu
 20 25 30
 His Leu Ser Ile Ile Glu His Thr Asp Val Asp Pro Ser Leu Lys Gly
 35 40 45
 Gln Gly Val Gly Lys Gln Leu Val Ala Lys Val Val Glu Lys Met Arg
 50 55 60
 Gly Glu Asn Arg Lys Ile Ile Pro Leu Cys Pro Phe Ala Lys His Glu
 65 70 75 80
 Phe Asp Asn Thr Arg Glu Tyr Asp Asp Ile Arg Ala
 85 90

<210> 9207
 <211> 986
 <212> PRT
 <213> Enterobacter cloacae

<400> 9207
 Ser Leu Gly Cys Ala Ala Ser Gly Gly Leu Arg Glu Gly Arg Gly Arg
 1 5 10 15
 Asn His Ile His Cys Thr Phe Gln Glu Pro Ser Leu Met Thr Gln Thr
 20 25 30
 Leu Ser Gln Leu Glu Asn Arg Gly Ala Phe Ile Glu Arg His Ile Gly
 35 40 45
 Pro Asp Ala Gln Gln Arg Gln Glu Met Leu Lys Thr Val Gly Ala Asp
 50 55 60
 Ser Leu Asn Ala Leu Ile Gly Gln Ile Val Pro Lys Asp Ile Gln Leu
 65 70 75 80
 Ala Thr Pro Pro Gln Val Gly Glu Ser Thr Thr Glu Phe Ala Ala Leu
 85 90 95
 Ala Glu Leu Lys Ala Ile Ala Gly Leu Asn Lys Arg Tyr Lys Ser Tyr
 100 105 110
 Ile Gly Met Gly Tyr Thr Asn Val Gln Leu Pro Pro Val Ile Leu Arg
 115 120 125
 Asn Met Leu Glu Asn Pro Gly Trp Tyr Thr Ala Tyr Thr Pro Tyr Gln
 130 135 140
 Pro Glu Val Ser Gln Gly Arg Leu Glu Ala Leu Leu Asn Phe Gln Gln
 145 150 155 160
 Val Thr Leu Asp Leu Thr Gly Met Asp Ile Ala Ser Ala Ser Leu Leu
 165 170 175
 Asp Glu Ala Thr Ala Ala Ala Glu Ala Met Ala Met Ala Lys Arg Val
 180 185 190
 Ser Lys Leu Lys Asn Ala Asn Arg Phe Phe Val Ala Ala Asp Val His
 195 200 205
 Pro Gln Thr Leu Asp Val Val Arg Thr Arg Ala Glu Thr Phe Gly Phe
 210 215 220
 Glu Val Ile Val Asp Asp Ala Glu Lys Val Leu Asp His Gln Asp Val
 225 230 235 240
 Phe Gly Val Leu Leu Gln Gln Val Gly Thr Thr Gly Glu Val His Asp
 245 250 255
 Tyr Gly Ala Leu Ile Ala Glu Leu Lys Ser Arg Lys Ile Ile Val Ser
 260 265 270
 Val Ala Ala Asp Phe Met Ala Leu Val Leu Leu Thr Ala Pro Gly Lys
 275 280 285

Gln 290	Gly	Ala	Asp	Ile	Val	Phe 295	Gly	Ser	Ala	Gln	Arg 300	Phe	Gly	Val	Pro
Met 305	Gly	Tyr	Gly	Gly	Pro 310	His	Ala	Ala	Phe	Phe 315	Gly	Ala	Lys	Asp	Glu 320
Phe	Lys	Arg	Ser	Met 325	Pro	Gly	Arg	Ile	Ile 330	Gly	Val	Ser	Lys	Asp	Ala
Ala	Gly	Asn	Thr 340	Ala	Leu	Arg	Met	Ala	Met 345	Gln	Thr	Arg	Glu 350	Gln	His
Ile	Arg	Arg 355	Glu	Lys	Ala	Asn	Ser 360	Asn	Ile	Cys	Thr 365	Ser	Gln	Val	Leu
Leu	Ala	Asn 370	Ile	Ala	Ser	Leu	Tyr 375	Ala	Val	Phe	His 380	Gly	Pro	Ala	Gly
Leu 385	Lys	Arg	Ile	Ala	Ser 390	Arg	Ile	His	Arg	Leu 395	Ala	Asp	Ile	Leu	Ala 400
Cys	Gly	Leu	Gln 405	Gln	Lys	Gly	Leu	Arg	Leu 410	Arg	His	Glu	His	Tyr 415	Phe
Asp	Thr	Leu 420	Cys	Val	Glu	Val	Ala	Asp 425	Lys	Ala	Ala	Val	Leu 430	Ala	Arg
Ala	Glu	Ala 435	Ala	Gln	Ile	Asn	Leu 440	Arg	Ser	Asp	Ile 445	His	Asn	Ala	Val
Gly	Ile	Thr 450	Leu	Asp	Glu	Ser 455	Thr	Thr	Arg	Asp	Asp 460	Ile	Leu	Thr	Leu
Phe 465	Asn	Val	Leu	Leu	Gly 470	Asp	Ala	His	Gly	Leu 475	Asp	Val	Asp	Thr	Leu 480
Asp	Lys	Glu	Val 485	Ala	Leu	Asp	Ser	Arg	Ser 490	Ile	Gln	Glu	Ser	Met	Leu 495
Arg	Asp	Asp 500	Ala	Ile	Leu	Thr	His 505	Pro	Val	Phe	Asn	Arg	Tyr 510	His	Ser
Glu	Thr	Glu 515	Met	Met	Arg	Tyr	Met 520	His	Ser	Leu	Glu 525	Arg	Lys	Asp	Leu
Ala	Leu	Asn 530	Gln	Ala	Met	Ile	Pro 535	Leu	Gly	Ser	Cys 540	Thr	Met	Lys	Leu
Asn 545	Ala	Ala	Ala	Glu	Met 550	Ile	Pro	Ile	Thr	Trp 555	Pro	Glu	Phe	Ser	Glu 560
Leu	His	Pro	Phe 565	Cys	Pro	Ala	Glu	Gln	Ala 570	Glu	Gly	Tyr	His	Met	Met
Ile	Asn	Gln 580	Leu	Ser	Asp	Trp	Leu 585	Val	Lys	Leu	Thr 590	Gly	Tyr	Asp	Ala
Leu	Cys	Met 595	Gln	Pro	Asn	Ser	Gly 600	Ala	Gln	Gly	Glu 605	Tyr	Ala	Gly	Leu
Leu	Ala	Ile 610	Arg	His	Tyr	His 615	Glu	Ser	Arg	Asn 620	Glu	Gly	His	Arg	Asp
Ile 625	Cys	Leu	Ile	Pro	Ser 630	Ser	Ala	His	Gly	Thr 635	Asn	Pro	Ala	Ser	Ala 640
Gln	Met	Ala	Gly 645	Met	Glu	Val	Val	Val	Val 650	Ala	Cys	Asp	Lys	Asn	Gly
Asn	Ile	Asp 660	Leu	Ala	Asp	Leu	Arg 665	Ala	Lys	Ala	Glu 670	Gln	Ala	Gly	Asp
Lys	Leu	Ser 675	Cys	Ile	Met	Val	Thr 680	Tyr	Pro	Ser	Thr 685	His	Gly	Val	Tyr
Glu	Glu 690	Thr	Ile	Arg	Glu	Val 695	Cys	Glu	Val	Val 700	His	Gln	Phe	Gly	Gly
Gln 705	Val	Tyr	Leu	Asp	Gly 710	Ala	Asn	Met	Asn 715	Ala	Gln	Val	Gly	Ile	Thr 720
Ser	Pro	Gly	Phe 725	Ile	Gly	Ala	Asp 730	Val	Ser	His 735	Leu	Asn	Leu	His	Lys
Thr	Phe	Cys 740	Ile	Pro	His	Gly	Gly 745	Gly	Gly	Pro	Gly 750	Met	Gly	Pro	Ile
Gly	Val 755	Lys	Ala	His	Leu	Ala 760	Pro	Phe	Val	Pro 765	Gly	His	Ser	Val	Val
Gln	Ile	Glu	Gly	Met	Leu	Thr	Arg	Gln	Gly	Ala	Val	Ser	Ala	Ala	Pro

770		775		780
Phe Gly Ser Ala Ser Ile Leu Pro Ile Ser Trp Met Tyr Ile Arg Met				
785		790		795
Met Gly Ala Glu Gly Leu Lys Gln Ala Ser Gln Val Ala Ile Leu Asn				800
		805		810
Ala Asn Tyr Ile Ala Thr Arg Leu Lys Asp Ala Tyr Pro Val Leu Tyr				815
		820		825
Thr Gly Arg Asp Gly Arg Val Ala His Glu Cys Ile Leu Asp Ile Arg				830
		835		840
Pro Leu Lys Glu Glu Thr Gly Ile Ser Glu Leu Asp Ile Ala Lys Arg				845
		850		855
Leu Ile Asp Tyr Gly Phe His Ala Pro Thr Met Ser Phe Pro Val Ala				860
865		870		875
Gly Thr Leu Met Val Glu Pro Thr Glu Ser Glu Ser Lys Val Glu Leu				880
		885		890
Asp Arg Phe Ile Asp Ala Met Leu Ala Ile Arg Ser Glu Ile Asp Arg				895
		900		905
Val Lys Gly Gly Glu Trp Thr Leu Glu Asp Asn Pro Leu Val Asn Ala				910
		915		920
Pro His Thr Gln Asn Glu Leu Val Ala Glu Trp Asn His Gly Tyr Thr				925
		930		935
Arg Glu Leu Ala Val Phe Pro Ala Gly Val Ala Asn Lys Tyr Trp Pro				940
945		950		955
Thr Val Lys Arg Leu Asp Asp Val Tyr Gly Asp Arg Asn Leu Phe Cys				960
		965		970
Ser Cys Val Pro Met Ser Glu Tyr Gln				975
		980		985

<210> 9208

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 9208

Phe Lys His Gly Ile Arg Asn Val Val Leu Trp Gln Ser Asp Leu Arg				
1		5		10
Val Ser Trp Arg Ser Gln Trp Met Ser Leu Leu Leu His Gly Leu Val				15
		20		25
Ala Ala Met Val Leu Leu Val Pro Trp Pro Leu Ser Tyr Thr Pro Leu				30
		35		40
Trp Leu Leu Leu Leu Ser Phe Val Val Phe Asp Ser Val Arg Ser Gln				45
		50		55
Arg Arg Ile Asn Ala Arg Gln Gly Glu Ile Lys Leu Leu Met Asp Ser				60
65		70		75
Arg Leu Arg Trp Gln Gly Lys Glu Trp Glu Met Met Gly Thr Pro Trp				80
		85		90
Met Leu Asn Thr Gly Met Met Leu Arg Leu Arg Arg Val Glu Asp Asn				95
		100		105
Arg Arg Gln His Leu Trp Leu Ala Ala Asp Ser Met Asp Pro Ala Glu				110
		115		120
Trp Arg Asp Leu Arg Arg Leu Ile Val Gln Gln Pro Thr Gln Glu				125
		130		135
				140

<210> 9209

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 9209

Trp Pro Asp Cys Arg Thr Lys Gly Ala Asp Val Glu Lys Asp Leu Ala				
1		5		10
				15

Leu Ile Glu Gln Phe Leu Asp Ala Leu Trp Leu Glu Lys Asn Leu Ala
 20 25 30
 Glu Asn Thr Leu Ser Ala Tyr Arg Arg Asp Leu Thr Leu Leu Val Glu
 35 40 45
 Trp Leu Ala His Arg Gly Leu Thr Leu Glu Ser Ala Gln Ser Asp Asp
 50 55 60
 Leu Gln Gly Leu Leu Ala Glu Arg Met Glu Gly Gly Tyr Lys Ala Thr
 65 70 75 80
 Ser Ser Ala Arg Leu Leu Ser Ala Met Arg Arg Leu Phe Gln His Leu
 85 90 95
 Tyr Arg Glu Lys Ile Arg Ala Asp Asp Pro Ser Ala Leu Leu Ala Ser
 100 105 110
 Pro Lys Leu Pro Gln Arg Leu Pro Lys Asp Leu Ser Glu Ala Gln Val
 115 120 125
 Glu Arg Leu Leu Gln Ser Pro Ala Val Asp Leu Pro Leu Glu Leu Arg
 130 135 140
 Asp Lys Ala Met Leu Glu Leu Leu Tyr Ala Thr Gly Leu Arg Val Ser
 145 150 155 160
 Glu Leu Val Gly Leu Thr Met Ser Asp Ile Ser Leu Arg Gln Gly Val
 165 170 175
 Val Arg Val Ile Gly Lys Gly Asn Lys Glu Arg Leu Val Pro Leu Gly
 180 185 190
 Glu Glu Ala Val Tyr Trp Leu Glu Thr Tyr Leu Glu His Gly Arg Pro
 195 200 205
 Trp Leu Leu Asn Gly Val Ser Ile Asp Val Leu Phe Pro Ser Gln Arg
 210 215 220
 Ala Gln Gln Met Thr Arg Gln Thr Phe Trp His Arg Ile Lys His Tyr
 225 230 235 240
 Ala Thr Leu Ala Gly Ile Asp Ser Glu Lys Leu Ser Pro His Val Leu
 245 250 255
 Arg His Ala Phe Ala Thr His Leu Leu Asn His Gly Ala Asp Leu Arg
 260 265 270
 Val Val Gln Met Leu Leu Gly His Ser Asp Leu Ser Thr Thr Gln Ile
 275 280 285
 Tyr Thr His Val Ala Thr Glu Arg Leu Arg Gln Leu His Gln Gln His
 290 295 300
 His Pro Arg Ala
 305

<210> 9210

<211> 581

<212> PRT

<213> Enterobacter cloacae

<400> 9210

Ile Ile Arg Val Lys Ala Pro Ile Lys Leu Arg Arg Arg Asp Ala Gly
 1 5 10 15
 Glu Thr Ala Asp Leu Pro Asp Thr Leu Pro Leu Leu Leu Lys Arg Leu
 20 25 30
 Tyr Ala Ser Arg Gly Val Arg Thr Ala Ser Asp Leu Glu Arg Ser Val
 35 40 45
 Lys Gly Met Leu Pro Trp Gln Ala Leu Ser Gly Ile Glu Gln Ala Ser
 50 55 60
 Glu Met Leu Tyr Asp Ala Phe Arg Glu Gly Thr Arg Ile Val Val Val
 65 70 75 80
 Gly Asp Phe Asp Ala Asp Gly Ala Thr Ser Thr Ala Leu Ser Val Leu
 85 90 95
 Ser Leu Arg Ala Leu Gly Cys Asp Asn Val Thr Tyr Leu Val Pro Asn
 100 105 110
 Arg Phe Glu Asp Gly Tyr Gly Leu Ser Pro Glu Val Val Asp Gln Ala
 115 120 125

His	Ala	Arg	Gly	Ala	Gln	Met	Ile	Met	Thr	Val	Asp	Asn	Gly	Ile	Ser
	130					135					140				
Ser	His	Ala	Gly	Val	Asp	His	Ala	His	Ala	Leu	Gly	Ile	Pro	Val	Leu
145					150					155					160
Val	Thr	Asp	His	His	Leu	Pro	Gly	Glu	Thr	Leu	Pro	Ala	Ala	Glu	Ala
				165					170					175	
Ile	Ile	Asn	Pro	Asn	Leu	Arg	Asp	Cys	Asp	Phe	Pro	Ser	Lys	Ser	Leu
			180					185					190		
Ala	Gly	Val	Gly	Val	Ala	Phe	Tyr	Leu	Met	Leu	Ala	Leu	Arg	Thr	Leu
		195					200					205			
Leu	Arg	Asp	Lys	Gly	Trp	Phe	Glu	Ser	Arg	Gly	Ile	Ala	Val	Pro	Asn
	210					215					220				
Leu	Ala	Glu	Tyr	Leu	Asp	Leu	Val	Ala	Leu	Gly	Thr	Val	Ala	Asp	Val
225					230					235					240
Val	Pro	Leu	Asp	Thr	Asn	Asn	Arg	Ile	Leu	Thr	Trp	Gln	Gly	Leu	Ser
				245					250					255	
Arg	Ile	Arg	Ala	Gly	Lys	Cys	Arg	Pro	Gly	Ile	Lys	Ala	Leu	Leu	Glu
			260					265					270		
Ile	Ala	Asn	Arg	Asp	Pro	Leu	Lys	Leu	Ala	Ala	Ser	Asp	Leu	Gly	Phe
		275					280					285			
Ala	Leu	Gly	Pro	Arg	Leu	Asn	Ala	Ala	Gly	Arg	Leu	Asp	Asp	Met	Ser
	290					295					300				
Val	Gly	Val	Ala	Leu	Leu	Leu	Cys	Asp	Asn	Ile	Gly	Glu	Ala	Arg	Val
305					310					315					320
Leu	Ala	Ser	Glu	Leu	Asp	Ala	Leu	Asn	Gln	Thr	Arg	Lys	Glu	Ile	Glu
				325					330					335	
Gln	Gly	Met	Gln	Ala	Glu	Ala	Leu	Thr	Leu	Cys	Glu	Lys	Leu	Glu	Arg
			340					345					350		
Ser	Gly	Asp	Thr	Leu	Pro	Gly	Gly	Leu	Ala	Met	Tyr	His	Pro	Glu	Trp
		355					360					365			
His	Gln	Gly	Val	Val	Gly	Ile	Leu	Ala	Ser	Arg	Ile	Lys	Glu	Arg	Phe
	370					375					380				
His	Arg	Pro	Val	Ile	Ala	Phe	Ala	Pro	Ala	Gly	Asp	Gly	Thr	Leu	Lys
385					390					395					400
Gly	Ser	Gly	Arg	Ser	Ile	Gln	Gly	Leu	His	Met	Arg	Asp	Ala	Leu	Glu
				405					410					415	
Arg	Leu	Asp	Thr	Leu	His	Pro	Asn	Leu	Met	Ile	Lys	Phe	Gly	Gly	His
			420					425					430		
Ala	Met	Ala	Ala	Gly	Leu	Ser	Leu	Glu	Glu	Ala	Lys	Phe	Asp	Glu	Phe
		435					440					445			
Gln	Arg	Leu	Phe	Gly	Glu	Leu	Val	Thr	Glu	Trp	Ile	Asp	Pro	Ala	Leu
	450					455					460				
Leu	Gln	Gly	Glu	Val	Val	Ser	Asp	Gly	Glu	Leu	Ser	Pro	Ala	Glu	Met
465					470					475					480
Thr	Met	Glu	Val	Ala	Gln	Met	Leu	Arg	Asp	Ala	Gly	Pro	Trp	Gly	Gln
				485					490					495	
Met	Phe	Pro	Glu	Pro	Leu	Phe	Asp	Gly	Arg	Phe	Arg	Leu	Leu	Gln	Gln
			500					505					510		
Arg	Ile	Val	Gly	Glu	Arg	His	Leu	Lys	Val	Met	Val	Glu	Ser	Val	Gly
		515					520					525			
Gly	Gly	Pro	Leu	Leu	Asp	Gly	Ile	Ala	Phe	Asn	Val	Asp	Thr	Ser	Ile
	530					535					540				
Trp	Pro	Asp	Asn	Gly	Val	Arg	Glu	Val	Glu	Leu	Ala	Tyr	Lys	Leu	Asp
545					550					555					560
Ile	Asn	Glu	Phe	Arg	Gly	Asn	Arg	Ser	Leu	Gln	Ile	Ile	Ile	Asp	Asn
				565					570					575	
Ile	Arg	Pro	Ile												
			580												

<210> 9211

<211> 420

<212> PRT

<213> Enterobacter cloacae

<400> 9211

Phe Lys Ile Lys Pro Ser Phe Phe Leu Arg Asn Gln Ser Pro Leu Leu
 1 5 10 15
 Tyr Leu Ser Ala Asn Phe Leu Phe Pro Gly Pro Gln Met Lys Thr Arg
 20 25 30
 Leu Leu Leu Cys Ala Gly Val Leu Ala Val Ser Ser Ala His Ala Ser
 35 40 45
 Ala Leu Tyr Phe Tyr Glu Ala Gly Thr Glu Asp Thr Ala Leu Ala Gly
 50 55 60
 Ala Gly Gln Ala Ala Arg Ala Lys Asp Ala Ser Thr Ile Met Thr Asn
 65 70 75 80
 Pro Ala Gly Met Thr Arg Leu Pro Asp His Met Val Thr Gly Gly Leu
 85 90 95
 Gln Val Met Asp Gly Ser Ile Asp Asn Gln Leu Asp Asn Asp Ala His
 100 105 110
 Gln Ser Pro Gly Asp Val Met Lys Thr Ile Pro Asn Ala Ser Ala Phe
 115 120 125
 Tyr Ser Gln Lys Ile Asn Asp Asp Leu Tyr Ala Gly Ile Gly Leu Tyr
 130 135 140
 Gly Asn Tyr Gly Leu Gly Ile Asp Tyr Gly Ser Trp Ala Gly Asp Arg
 145 150 155 160
 Leu Ile Lys Lys Ser Thr Met Val Ala Met Thr Leu Ser Pro Ser Leu
 165 170 175
 Ala Tyr Lys Leu Asn Asp Arg Leu Ser Ile Gly Ala Ser Ala Asn Val
 180 185 190
 Asn Tyr Gly Tyr Phe Ser Leu Thr Arg Ser Val Asn Asp Asp Asp Tyr
 195 200 205
 Gln Arg Arg Asp Glu Asp Leu Ala Met Ser Tyr Arg Leu Gly Leu Leu
 210 215 220
 Met Gln Leu Thr Asp Gln Thr Arg Ala Gly Ile Thr Trp Asn Ser Glu
 225 230 235 240
 Thr Asp Tyr Ser Phe Asn Ile Asp Gly Asn Ala Arg Leu Gln Asn Gly
 245 250 255
 Thr Tyr Asp Leu Pro Leu Ser Ala Gln Ile Ser Ala Pro Gln Gln Ile
 260 265 270
 Met Leu Ser Leu Val His Asp Ile Asn Pro Arg Trp Ser Val Met Gly
 275 280 285
 Asp Leu Gly Trp Gln Asp Trp Ser Gln Phe Gly Ala Pro Gln Ile Val
 290 295 300
 Val Gly Asp Gln Gln Leu Asn Asn Val Ser Arg Leu Lys Asp Thr Trp
 305 310 315 320
 His Gly Ala Val Gly Val Gln Tyr Arg Pro Thr Pro Gln Trp Arg Leu
 325 330 335
 Asn Ala Gly Val Ala Phe Asp Ser Ser Pro Tyr Glu Ser Gln Ser Asp
 340 345 350
 Val Ala Leu Thr Leu Pro Thr Gly Asp Glu Trp Arg Phe Gly Thr Gly
 355 360 365
 Ala Gln Tyr Gln Ile Thr Pro Ala Ser Asn Ile Gly Ile Ala Val Ser
 370 375 380
 Tyr Leu His Met Gln Ser Ser His Val Lys Ser Pro Val Ala Phe Ala
 385 390 395 400
 Gly Ser Tyr Asp His Pro Tyr Leu Trp Phe Ala Ser Val Asn Tyr Ser
 405 410 415
 Tyr Gln Phe
 420

<210> 9212

<211> 216

<212> PRT

<213> Enterobacter cloacae

<400> 9212

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Met Ser Glu Gly Cys Thr Met His Ile Leu Pro Pro Val Arg Pro Glu
1      5      10      15
Lys Ser Ile Glu Arg Leu Thr Ala Ile Leu Glu Pro Ile Ala Glu Lys
      20      25      30
Val His Val Val Pro Arg Lys Arg Leu Thr Trp Leu Arg Lys Gly Lys
      35      40      45
Gln Gln Met Tyr Leu Phe Leu Glu Gly Glu Leu Ser Leu Leu Arg Ala
      50      55      60
Ser Asp Gly Leu Val Val Thr Val Tyr Glu Pro His Leu Phe Gly
65      70      75      80
Ile Ala Glu Met Ile Gln Pro Thr Gln Gly His Leu Leu Arg Ala Glu
      85      90      95
Arg Glu Ser Thr Ile Leu Arg Leu Asp Ala Asp Lys Ala Ala Glu Leu
      100      105      110
Phe Arg Ala Glu Gly Val Trp Glu Asp Val Ala Ala Leu Leu Ser Tyr
      115      120      125
His Thr Ala Tyr Leu Ile Phe Arg Asp Ala Gln Val Leu Gln Gln Arg
      130      135      140
Thr Tyr Ser Val Ile Arg Asn His Leu Gln Glu Met Ile Leu Leu Pro
145      150      155      160
Glu Glu Thr Arg Leu Arg Thr Thr Ile Leu Glu Tyr Ile Gln Asp Arg
      165      170      175
Thr Leu Leu Ser Arg Ser Ser Ile Leu Asn Val Leu Ser Ala Leu Lys
      180      185      190
Gln Gly Glu Tyr Ile Ser Phe Lys Arg Gly Gly Tyr Leu Leu Glu Val
      195      200      205
Arg His Leu Pro Glu Ser Phe
      210      215

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<210> 9213

<211> 678

<212> PRT

<213> Enterobacter cloacae

<400> 9213

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Pro Pro Phe Pro Pro Cys Thr Ala Ser Val Asn Ile Thr Pro Arg Gly
1      5      10      15
Ser Met Lys Phe Lys Thr Leu Val Ser Ala Met Ala Val Ala Gly Leu
      20      25      30
Leu Leu Val Ser Leu Thr Ser Leu Pro Val Leu Ala Gln Lys Glu Gly
      35      40      45
Lys Gly Ala Thr Ala His Thr Lys Glu Met Asn Asp Ala Leu Tyr Gly
      50      55      60
Gln Leu Pro Phe Phe Asp Lys Thr Asp Phe Arg Asn Ala His Lys Gly
65      70      75      80
Phe Ile Ala Ser Leu Pro Pro Ala Val Ile Lys Asp Glu Lys Gly Ala
      85      90      95
Val Ile Trp Asn Pro Gln Lys Tyr Ala Phe Ile Lys Glu Gly Gln Lys
      100      105      110
Ala Pro Asp Thr Val Asn Pro Ser Leu Trp Arg Gln Ala Gln Leu Asn
      115      120      125
Asn Ile Gly Gly Leu Phe Glu Val Thr Glu Gly Ile Tyr Gln Ile Arg
      130      135      140
Asn Leu Asp Leu Ser Asn Met Thr Ile Ile Glu Gly Lys Glu Gly Ile
145      150      155      160
Thr Val Ile Asp Pro Leu Leu Ser Ala Glu Thr Ala Lys Ala Gly Met
      165      170      175

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Asp	Leu	Tyr	Val	Gln	His	Arg	Gly	Lys	Arg	Pro	Val	Val	Ala	Val	Ile
			180					185					190		
Tyr	Thr	His	Ser	His	Val	Asp	His	Tyr	Gly	Gly	Val	Arg	Gly	Val	Val
		195					200					205			
Asp	Glu	Ala	Gly	Val	Met	Thr	Gly	Lys	Val	Lys	Val	Tyr	Ala	Pro	Ala
	210					215					220				
Gly	Phe	Met	Glu	Glu	Ala	Val	Ser	Glu	Asn	Ile	Met	Ala	Gly	Asn	Ala
225					230					235					240
Ile	Ser	Arg	Arg	Ala	Ser	Tyr	Ile	Tyr	Gly	Asn	Leu	Leu	Lys	Ala	Asn
				245					250					255	
Val	Lys	Gly	Gln	Ile	Gly	Ala	Gly	Leu	Gly	Thr	Thr	Thr	Ser	Ala	Gly
			260					265					270		
Thr	Val	Thr	Leu	Ile	Ala	Pro	Thr	His	Ala	Ile	Thr	Lys	Asp	Gly	Gln
		275					280					285			
Lys	Glu	Ile	Ile	Asp	Gly	Leu	Thr	Tyr	Asp	Phe	Met	Leu	Ala	Pro	Gly
	290					295					300				
Ser	Glu	Ala	Pro	Ser	Glu	Met	Leu	Trp	Tyr	Val	Glu	Glu	Lys	Lys	Leu
305					310					315					320
Ile	Gln	Ala	Ala	Glu	Asn	Val	Thr	His	Thr	Leu	His	Asn	Thr	Tyr	Ser
				325					330					335	
Leu	Arg	Arg	Ala	Lys	Ile	His	Asp	Pro	Leu	Ala	Trp	Ser	Lys	Tyr	Ile
			340					345					350		
Asn	Asn	Ala	Leu	Asp	Arg	Trp	Gly	Asp	Lys	Ala	Glu	Ile	Ile	Ile	Ala
		355					360					365			
Gln	His	His	Trp	Pro	Thr	Trp	Gly	Asn	Lys	Lys	Val	Val	Lys	Leu	Met
	370					375					380				
Lys	Ser	Gln	Arg	Asp	Ile	Tyr	Arg	Tyr	Ile	Asn	Asp	Gln	Thr	Leu	Arg
385					390					395					400
Leu	Ala	Asn	Lys	Gly	Leu	Thr	Arg	Asp	Glu	Ile	Ala	Ala	Asn	Phe	Ala
				405					410					415	
Leu	Pro	Tyr	Gly	Leu	Ala	Lys	Ser	Trp	Ala	Gly	Arg	Gly	Tyr	Tyr	Gly
			420					425					430		
Ser	Val	Ser	Asn	Asn	Val	Lys	Ala	Thr	Tyr	Val	Tyr	Tyr	Leu	Gly	Trp
		435					440					445			
Phe	Asp	Gly	Asn	Pro	Ala	Thr	Leu	Asp	Glu	Leu	Pro	Pro	Val	Glu	Ala
	450					455					460				
Ala	Lys	Lys	Tyr	Val	Asp	Tyr	Met	Gly	Gly	Ala	Arg	Ala	Ile	Leu	Glu
465					470					475					480
Lys	Ala	Arg	Val	Asp	Tyr	Ala	Arg	Gly	Asn	Tyr	Arg	Trp	Val	Ala	Gln
				485					490					495	
Val	Val	Ser	Lys	Val	Val	Phe	Ala	Asp	Pro	Asn	Asn	Lys	Ala	Ala	Arg
			500					505					510		
Glu	Leu	Glu	Ala	Asp	Ala	Phe	Glu	Gln	Leu	Gly	Tyr	His	Ala	Glu	Ser
		515					520					525			
Gly	Pro	Trp	Arg	Asn	Ala	Tyr	Leu	Thr	Gly	Ala	Gln	Glu	Leu	Arg	Asn
	530					535					540				
Gly	Val	Lys	Ile	Lys	Pro	Thr	Pro	Lys	Thr	Ala	Ser	Pro	Asp	Ala	Val
545					550					555					560
Arg	Ala	Met	Ser	Thr	Glu	Met	Ile	Phe	Asp	Tyr	Phe	Gly	Val	His	Leu
				565					570					575	
Asn	Gly	Val	Arg	Ala	Ala	Asn	Ala	Arg	Gly	Ile	Phe	Asn	Val	Asp	Leu
			580					585					590		
Gly	Arg	Glu	Gly	Gly	Arg	Tyr	Lys	Leu	Glu	Leu	Glu	Asn	Gly	Val	Leu
			595				600					605			
Asn	His	Ser	Ala	Asn	Ile	Gln	Ala	Glu	Asp	Pro	Asp	Ala	Thr	Ile	Thr
	610					615					620				
Leu	Ser	Arg	Glu	Thr	Leu	Asn	Lys	Ile	Ile	Leu	Lys	Glu	Thr	Thr	Leu
625					630					635					640
Lys	Lys	Ala	Gln	Gln	Ala	Gly	Glu	Val	Thr	Ile	Val	Gly	Asn	Ala	Ala
			645						650					655	
Lys	Val	Asp	Glu	Met	Leu	Arg	Cys	Met	Glu	Ser	Phe	Ser	Phe	Trp	Phe

660
Pro Val Val Thr Pro
675

665

670

<210> 9214
<211> 195
<212> PRT
<213> Enterobacter cloacae

<400> 9214
Asn Thr Leu Phe Leu Ser Val Met Val Ile Phe Leu Leu Phe Leu Thr
1 5 10 15
Lys Ile Lys Gly Asn Ala Met Ser Asn Leu Ile His Asp Ser Asn Ser
20 25 30
Thr Ile Ser Glu Leu Thr Lys Lys Leu Ala Thr Gln Leu Thr Asp Arg
35 40 45
Gly Leu Arg Leu Thr Thr Ala Glu Ser Cys Thr Gly Gly Asn Leu Ala
50 55 60
Val Ala Leu Cys Ala Glu Glu Asn Thr Ala Glu Phe Tyr Asp Val Gly
65 70 75 80
Met Val Val Phe Ser Asp Ala Ala Lys Glu Arg Ile Leu Gly Val Arg
85 90 95
His Glu Thr Ile Glu Arg Phe Thr Ala Val Ser Glu Gln Thr Val Thr
100 105 110
Glu Met Ala Ala Lys Ile Arg Glu Ile Ala Glu Ala Asp Ile Gly Leu
115 120 125
Ala Ile Ser Gly Tyr Ala Gly Pro Glu Gly Gly Asp Asp Gly Thr Ala
130 135 140
Ala Gly Thr Val Cys Phe Gly Trp Asn Ile Arg Gly Gln Thr Glu Thr
145 150 155 160
Arg Thr Val Leu Phe Ser Gly Glu Cys Gln Asp Val Val Asp Lys Ala
165 170 175
Val Arg Tyr Ser Leu Ser Glu Leu Ile Glu Ile Leu Ser Gly Trp Asp
180 185 190
Asn Val
195

<210> 9215
<211> 364
<212> PRT
<213> Enterobacter cloacae

<400> 9215
Pro Pro Leu Thr His Arg Ala Arg Leu Leu His Ile Ser Glu Ala Lys
1 5 10 15
Leu Pro Cys Ser Phe Phe Thr Ala Thr Asn Ser Leu Gln Ser Ser Pro
20 25 30
Leu Pro Ala Asn Asn Asn Gly Asp Leu Met Gly Thr Thr Lys His Ser
35 40 45
Lys Leu Leu Ile Leu Gly Ser Gly Pro Ala Gly Tyr Thr Ala Ala Val
50 55 60
Tyr Ala Ala Arg Ala Asn Leu Gln Pro Val Leu Ile Thr Gly Met Glu
65 70 75 80
Lys Gly Gly Gln Leu Thr Thr Thr Thr Glu Val Glu Asn Trp Pro Gly
85 90 95
Asp Pro Asn Asp Leu Thr Gly Pro Leu Leu Met Glu Arg Met His Glu
100 105 110
His Ala Ala Lys Phe Glu Thr Glu Ile Leu Phe Asp His Ile Asn Lys
115 120 125
Val Asp Leu Gln Asn Arg Pro Phe Arg Leu Thr Gly Asp Ser Gly Glu
130 135 140

Tyr Thr Cys Asp Ala Leu Ile Ile Ala Thr Gly Ala Ser Ala Arg Tyr
 145 150 155 160
 Leu Gly Leu Pro Ser Glu Glu Ala Phe Lys Gly Arg Gly Val Ser Ala
 165 170 175
 Cys Ala Thr Cys Asp Gly Phe Phe Tyr Arg Asn Gln Lys Val Ala Val
 180 185 190
 Ile Gly Gly Gly Asn Thr Ala Val Glu Glu Ala Leu Tyr Leu Ala Asn
 195 200 205
 Ile Ala Ser Glu Val His Leu Ile His Arg Arg Asp Thr Phe Arg Ala
 210 215 220
 Glu Lys Ile Leu Ile Lys Arg Leu Met Asp Lys Val Ala Ser Gly Asn
 225 230 235 240
 Ile Val Leu His Thr Asn Arg Thr Leu Glu Glu Val Thr Gly Asp Gln
 245 250 255
 Met Gly Val Ala Gly Leu Arg Ile Arg Asp Thr Gln Asn Thr Asp Asn
 260 265 270
 Val Glu Thr Leu Glu Val Ala Gly Leu Phe Val Ala Ile Gly His Ser
 275 280 285
 Pro Asn Thr Ala Ile Phe Glu Gly Gln Leu Glu Leu Glu Asn Gly Tyr
 290 295 300
 Ile Lys Val Gln Ser Gly Ile His Gly Asn Ala Thr Gln Thr Ser Val
 305 310 315 320
 Pro Gly Val Phe Ala Ala Gly Asp Val Met Asp His Ile Tyr Arg Gln
 325 330 335
 Ala Ile Thr Ser Ala Gly Thr Gly Cys Val Ala Ala Leu Asp Ala Glu
 340 345 350
 Arg Tyr Leu Asp Gly Leu Ala Glu Gln Gly Lys
 355 360

<210> 9216

<211> 599

<212> PRT

<213> Enterobacter cloacae

<400> 9216

Phe Leu Ile Thr Ser Pro Ala Lys Tyr Ala Met Glu Lys Thr Arg Gln
 1 5 10 15
 Gln Glu Leu Thr Arg Trp Leu Lys Gln Ser Val Leu Ser Arg Arg
 20 25 30
 Trp Leu Met Ile Ser Arg Val Leu Gly Phe Ile Ser Gly Leu Leu Ile
 35 40 45
 Val Ala Gln Ala Trp Leu Leu Ala Arg Ile Leu Asn His Met Ile Met
 50 55 60
 Glu Asn Ile Pro Arg Glu Ala Leu Leu Leu Pro Phe Ile Val Leu Val
 65 70 75 80
 Leu Val Phe Val Leu Arg Ala Trp Val Val Trp Leu Arg Glu Arg Val
 85 90 95
 Gly Phe His Ala Gly Gln His Ile Arg Tyr Glu Ile Arg Arg Lys Val
 100 105 110
 Leu Asp Arg Leu Ser Glu Ala Gly Pro Ala Trp Ile Gln Gly Lys Pro
 115 120 125
 Ala Gly Ser Trp Ala Thr Leu Ile Leu Glu Gln Ile Asp Asp Met His
 130 135 140
 Asp Tyr Tyr Ala Arg Tyr Leu Pro Gln Met Ala Leu Ala Val Phe Val
 145 150 155 160
 Pro Leu Met Ile Val Ile Ala Ile Phe Pro Val Asn Trp Val Ala Ala
 165 170 175
 Leu Ile Leu Leu Gly Thr Ala Pro Leu Ile Pro Leu Phe Met Ala Met
 180 185 190
 Val Gly Met Gly Ala Ala Asp Ala Asn Arg Arg Asn Phe Leu Ala Leu
 195 200 205

Gly Arg Leu Ser Gly His Phe Leu Asp Arg Leu Arg Gly Met Glu Thr
 210 215 220
 Leu Arg Ile Phe Gly Arg Gly Glu Ala Glu Thr Glu Asn Ile Arg Leu
 225 230 235 240
 Ala Ser Gln Asp Phe Arg Gln Arg Thr Met Glu Val Leu Arg Met Ala
 245 250 255
 Phe Leu Ser Ser Gly Val Leu Glu Phe Phe Thr Ser Leu Ser Ile Ala
 260 265 270
 Leu Val Ala Val Tyr Phe Gly Phe Ser Tyr Leu Gly Ala Leu Asp Phe
 275 280 285
 Gly His Tyr Gly Thr Ala Val Thr Leu Ser Ala Gly Phe Leu Ala Leu
 290 295 300
 Ile Leu Ala Pro Glu Phe Phe Gln Pro Leu Arg Asp Leu Gly Thr Phe
 305 310 315 320
 Tyr His Ala Lys Ala Gln Ala Val Gly Ala Ala Asp Ser Leu Lys Thr
 325 330 335
 Phe Met Glu Thr Pro Leu Ala His Pro Glu Arg Gly Glu Val Thr Leu
 340 345 350
 Asn Thr Asn Asp Pro Val Thr Ile Glu Ala Gln Asp Phe Ser Val Leu
 355 360 365
 Ser Pro Glu Gly Lys Val Leu Ala Gly Pro Leu Asn Phe Thr Leu Pro
 370 375 380
 Ala Gly Gln Arg Val Val Leu Val Gly Thr Ser Gly Ser Gly Lys Ser
 385 390 395 400
 Ser Leu Leu Asn Ala Leu Ser Gly Phe Met Ala Tyr Thr Gly Ser Leu
 405 410 415
 Arg Ile Asn Lys Thr Glu Leu Arg Glu Leu Asp Pro Asp Ala Trp Arg
 420 425 430
 Lys Gln Leu Ser Trp Val Gly Gln Asn Pro Gln Leu Pro Ala Pro Thr
 435 440 445
 Leu Arg Glu Asn Val Leu Leu Ala Arg Pro Asp Ala Arg Asp Asp Glu
 450 455 460
 Leu Gln Ser Val Leu Asp Arg Ala Trp Val Ser Glu Phe Leu Pro Leu
 465 470 475 480
 Leu Ala Gln Gly Ile Asp Thr Val Ile Gly Asp Gln Ser Ala Gly Leu
 485 490 495
 Ser Val Gly Gln Ala Gln Arg Val Ala Val Ala Arg Ala Leu Leu Asn
 500 505 510
 Pro Ser Ser Leu Met Leu Leu Asp Glu Pro Ala Ala Ser Leu Asp Ala
 515 520 525
 His Ser Glu Gln Arg Val Met Asp Ala Leu Asn Ala Ala Ser Arg Gln
 530 535 540
 Gln Thr Thr Leu Met Val Thr His Gln Leu Glu Gly Ile Ala Asp Trp
 545 550 555 560
 Asp Gln Ile Trp Val Met Glu Asn Gly His Ile Val Glu Gln Gly Asp
 565 570 575
 Tyr Ala Ala Leu Val Ala Ala Gln Gly Pro Phe Ala Thr Leu Leu Ala
 580 585 590
 Asn Arg Gln Glu Asp Ile
 595

<210> 9217

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 9217

Ile Tyr Leu Ser Gly Glu Gly Met Leu Met Val Ser Lys Tyr Trp Leu
 1 5 10 15
 Phe Glu Ser Ser Ser Leu Tyr Gly Asp Ile Thr Arg Ala Gln Glu Trp
 20 25 30

Ala Arg Thr Phe Ile Ile Glu Val Val Met Phe Arg Lys Leu Ala Ala
 35 40 45
 Glu Cys Phe Gly Thr Phe Trp Leu Val Phe Gly Gly Cys Gly Ser Ala
 50 55 60
 Val Leu Ala Ala Ala Phe Pro Glu Leu Gly Ile Gly Phe Val Gly Val
 65 70 75 80
 Ala Leu Ala Phe Gly Leu Thr Val Leu Thr Met Ala Phe Ala Val Gly
 85 90 95
 His Ile Ser Gly Gly His Phe Asn Pro Ala Val Thr Leu Gly Leu Trp
 100 105 110
 Ala Gly Gly Arg Phe Pro Ala Lys Asp Ile Ile Gly Tyr Ile Ile Ala
 115 120 125
 Gln Val Ile Gly Gly Ile Ile Ala Ala Val Leu Tyr Val Ile Ala
 130 135 140
 Ser Gly Lys Ala Gly Phe Asp Ala Ala Ala Ser Gly Phe Ala Ser Asn
 145 150 155 160
 Gly Phe Gly Glu His Ser Pro Gly Gly Tyr Ser Met Leu Ser Ala Ile
 165 170 175
 Val Ile Glu Ile Val Leu Thr Ala Gly Phe Leu Leu Val Ile His Gly
 180 185 190
 Ala Thr Asp Lys Tyr Ala Pro Ala Gly Phe Ala Pro Ile Ala Ile Gly
 195 200 205
 Leu Ala Leu Thr Leu Ile His Leu Ile Ser Ile Pro Val Thr Asn Thr
 210 215 220
 Ser Val Asn Pro Ala Arg Ser Thr Ala Val Ala Ile Phe Gln Gly Gly
 225 230 235 240
 Trp Ala Leu Glu Gln Leu Trp Leu Phe Trp Val Met Pro Ile Ile Gly
 245 250 255
 Gly Ile Leu Gly Gly Val Leu Tyr Arg Thr Leu Leu Glu Lys Arg Asp
 260 265 270

<210> 9218

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 9218

Cys Leu Trp Arg Leu Thr Asp Thr Gln Lys Asp Arg Leu Phe Met Phe
 1 5 10 15
 Ser Gly Leu Leu Ile Ile Leu Leu Pro Leu Ile Ala Gly Tyr Leu Ile
 20 25 30
 Pro Leu Arg His Glu Ser Ala Leu Lys Leu Ile Asn Arg Phe Leu Ser
 35 40 45
 Trp Ile Val Tyr Val Ile Leu Phe Phe Met Gly Ile Ser Leu Ala Phe
 50 55 60
 Leu Asp Asn Leu Ala Thr Asn Leu Leu Ser Ile Leu His Tyr Ser Ala
 65 70 75 80
 Val Thr Val Val Val Ile Leu Leu Cys Asn Ile Ala Ala Leu Phe Trp
 85 90 95
 Leu Glu Arg Thr Ile Pro Trp Lys Asn His His His Gln Glu Lys Leu
 100 105 110
 Pro Ser Arg Ile Ala Met Ala Leu Glu Ser Leu Lys Leu Cys Gly Val
 115 120 125
 Val Val Leu Gly Phe Leu Leu Gly Leu Thr Gly Trp Ala Phe Leu Gln
 130 135 140
 His Ala Thr Glu Ala Ser Glu Tyr Thr Leu Ile Phe Leu Leu Phe Leu
 145 150 155 160
 Ile Gly Ile Gln Leu Arg Asn Asn Gly Met Thr Leu Lys Gln Ile Val
 165 170 175

Leu Asn Arg Arg Gly Met Met Val Ala Val Ile Val Val Ala Ser Ser
 180 185 190
 Leu Ala Gly Gly Val Ile Asn Ala Phe Ile Leu Asp Leu Pro Leu Lys
 195 200 205
 Thr Ser Leu Ala Met Ala Ser Gly Phe Gly Trp Tyr Ser Leu Ser Gly
 210 215 220
 Ile Leu Leu Thr Glu Ser Phe Gly Pro Val Ile Gly Ser Ala Ala Phe
 225 230 235 240
 Phe Asn Asp Leu Ala Arg Glu Leu Leu Ala Ile Met Leu Ile Pro Gly
 245 250 255
 Leu Val Ser Arg Ser Arg Ser Thr Ala Leu Gly Leu Cys Gly Ala Thr
 260 265 270
 Ser Met Asp Phe Thr Leu Pro Val Leu Gln Arg Ser Gly Gly Leu Glu
 275 280 285
 Met Val Pro Ala Ala Ile Val His Gly Phe Ile Leu Ser Leu Leu Val
 290 295 300
 Pro Ile Leu Met Ala Phe Phe Ser Ala
 305 310

<210> 9219

<211> 559

<212> PRT

<213> Enterobacter cloacae

<400> 9219

Asn Ile Thr Leu Thr Gly Val Ile Met Phe Cys Val Gln Cys Glu Gln
 1 5 10 15
 Thr Ile Arg Thr Pro Ala Gly Asn Gly Cys Ser Tyr Ala Gln Gly Met
 20 25 30
 Cys Gly Lys Thr Ala Glu Thr Ser Asp Leu Gln Asp Leu Ile Ala
 35 40 45
 Ala Leu Gln Gly Leu Ser Ala Trp Ala Phe Lys Ala Arg Glu Tyr Gly
 50 55 60
 Ile Val Asp His Tyr Val Asp Ser Phe Ala Pro Arg Ala Phe Phe Ser
 65 70 75 80
 Thr Leu Thr Asn Val Asn Phe Asp Ser Pro Arg Ile Val Gly Tyr Ala
 85 90 95
 Arg Glu Ala Ile Ala Leu Arg Glu Ala Leu Lys Ala Gln Cys Leu Asn
 100 105 110
 Ala Asp Ala Ser Ala Arg Val Asp Asn Pro Met Ala Glu Leu Gln Leu
 115 120 125
 Val Ser Asp Asp Leu Gly Glu Leu Gln Arg Gln Ala Ala Glu Phe Thr
 130 135 140
 Pro Asn Lys Asp Lys Ala Ala Ile Gly Glu Asn Ile Leu Gly Leu Arg
 145 150 155 160
 Leu Leu Cys Leu Tyr Gly Leu Lys Gly Ala Ala Ala Tyr Met Glu His
 165 170 175
 Ala His Val Leu Gly Gln Tyr Asp Asn Ala Ile Tyr Ala Gln Tyr His
 180 185 190
 Lys Ile Met Ala Trp Leu Gly Thr Trp Pro Ser Asp Met Asn Ala Leu
 195 200 205
 Leu Glu Cys Ser Met Glu Ile Gly Gln Met Asn Phe Lys Val Met Ser
 210 215 220
 Ile Leu Asp Ala Gly Glu Thr Ser Thr Tyr Gly His Pro Thr Pro Thr
 225 230 235 240
 Gln Val Asn Val Lys Ala Thr Glu Gly Lys Cys Ile Leu Ile Ser Gly
 245 250 255
 His Asp Leu Lys Asp Leu Tyr Asn Leu Leu Lys Gln Thr Glu Gly Thr
 260 265 270
 Gly Val Asn Val Tyr Thr His Gly Glu Met Leu Pro Ala His Gly Tyr
 275 280 285

Pro	Glu	Leu	Arg	Lys	Phe	Lys	His	Leu	Ile	Gly	Asn	Tyr	Gly	Ser	Gly
	290					295					300				
Trp	Gln	Asn	Gln	Gln	Val	Glu	Phe	Ala	Arg	Phe	Pro	Gly	Pro	Ile	Val
305					310					315					320
Met	Thr	Ser	Asn	Cys	Ile	Ile	Asp	Pro	Thr	Val	Gly	Ala	Tyr	Asp	Asp
				325					330					335	
Arg	Ile	Trp	Thr	Arg	Ser	Ile	Val	Gly	Trp	Pro	Gly	Val	Ser	His	Leu
			340					345					350		
Glu	Gly	Asp	Asp	Phe	Gly	Pro	Val	Ile	Ala	Gln	Ala	Gln	Gln	Met	Ala
		355					360					365			
Gly	Phe	Pro	Tyr	Ser	Glu	Ile	Pro	His	Leu	Ile	Thr	Val	Gly	Phe	Gly
	370					375					380				
Arg	Glu	Thr	Leu	Leu	Gly	Ala	Ala	Asp	Ser	Leu	Ile	Asp	Leu	Val	Ser
385					390					395					400
Arg	Glu	Lys	Leu	Arg	His	Ile	Phe	Leu	Ile	Gly	Gly	Cys	Asp	Gly	Ala
				405				410						415	
Arg	Gly	Glu	Arg	Asn	Tyr	Phe	Thr	Asp	Phe	Ala	Thr	Arg	Val	Pro	Glu
			420					425					430		
Asp	Cys	Leu	Ile	Leu	Thr	Leu	Ala	Cys	Gly	Lys	Tyr	Arg	Phe	Asn	Lys
	435						440					445			
Leu	Asp	Phe	Gly	Asn	Ile	Glu	Gly	Leu	Pro	Arg	Leu	Val	Asp	Ala	Gly
	450					455					460				
Gln	Cys	Asn	Asp	Ala	Tyr	Ser	Ala	Ile	Ile	Leu	Ala	Val	Thr	Leu	Ala
465					470					475					480
Glu	Lys	Leu	Gly	Cys	Gly	Val	Asn	Asp	Leu	Pro	Leu	Ser	Leu	Val	Leu
				485					490					495	
Ser	Trp	Phe	Glu	Gln	Lys	Ala	Ile	Val	Ile	Leu	Leu	Thr	Leu	Leu	Ser
			500					505					510		
Leu	Gly	Val	Thr	Asn	Ile	Val	Thr	Gly	Pro	Thr	Ala	Pro	Gly	Phe	Leu
	515						520					525			
Thr	Pro	Asp	Leu	Leu	Ala	Ile	Leu	Asn	Glu	Lys	Phe	Gly	Leu	Arg	Ser
	530					535					540				
Val	Thr	Asn	Val	Glu	Asp	Asp	Met	Lys	Gln	Leu	Leu	Ser	Ala		
545					550					555					

<210> 9220

<211> 248

<212> PRT

<213> Enterobacter cloacae

<400> 9220

Val	Lys	Thr	Ala	Pro	Met	Ser	Ile	Lys	Leu	Asn	Gly	Ile	Asn	Trp	Phe
1				5					10					15	
Tyr	Gly	Ala	His	Gln	Ala	Leu	Phe	Asp	Ile	Thr	Leu	Ser	Cys	Pro	Glu
		20						25					30		
Gly	Glu	Thr	Leu	Val	Leu	Leu	Gly	Pro	Ser	Gly	Ala	Gly	Lys	Ser	Ser
	35					40						45			
Leu	Leu	Arg	Val	Leu	Asn	Leu	Glu	Met	Pro	Arg	Ser	Gly	Thr	Leu	
50						55				60					
Ala	Ile	Ala	Gly	Asn	His	Phe	Asp	Phe	Ala	Lys	Thr	Pro	Ser	Asp	Lys
65				70					75					80	
Ala	Ile	Arg	Glu	Leu	Arg	Gln	Asn	Val	Gly	Met	Val	Phe	Gln	Gln	Tyr
				85					90					95	
Asn	Leu	Trp	Pro	His	Leu	Thr	Val	Val	Gln	Asn	Leu	Ile	Glu	Ala	Pro
	100						105					110			
Cys	Arg	Val	Leu	Gly	Leu	Ser	Lys	Asp	Gln	Ala	Met	Ala	Arg	Ala	Glu
	115					120						125			
Lys	Leu	Leu	Glu	Arg	Leu	Arg	Leu	Lys	Pro	Tyr	Ser	Asp	Arg	Tyr	Pro
	130					135					140				
Leu	His	Leu	Ser	Gly	Gly	Gln	Gln	Gln	Arg	Val	Ala	Ile	Ala	Arg	Ala
145					150					155					160

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<210> 9221
<211> 250
<212> PRT
<213> Enterobacter cloacae
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<210> 9222
<211> 228
<212> PRT
<213> Enterobacter cloacae
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<220>
<221> UNSURE
<222> (5)

<220>
 <221>UNSURE
 <222>(23)

<220>
 <221>UNSURE
 <222>(73)

<400> 9222

Thr	Glu	Thr	Arg	Xaa	Met	Trp	Asp	Tyr	Leu	Pro	Glu	Leu	Met	Lys	Gly
1				5					10					15	
Leu	His	Thr	Ser	Leu	Thr	Xaa	Thr	Val	Ala	Ser	Ile	Ile	Val	Ala	Leu
			20					25					30		
Ile	Leu	Ala	Leu	Ile	Phe	Thr	Phe	Val	Leu	Thr	Leu	Lys	Thr	Pro	Val
		35					40					45			
Leu	Val	Trp	Ile	Val	Arg	Gly	Tyr	Ile	Thr	Leu	Phe	Thr	Gly	Thr	Pro
	50					55					60				
Leu	Leu	Val	Gln	Ile	Phe	Leu	Ile	Xaa	Tyr	Gly	Pro	Gly	Gln	Phe	Pro
65					70				75						80
Ser	Leu	Gln	Glu	Tyr	Pro	Val	Ile	Trp	His	Leu	Leu	Ser	Glu	Pro	Trp
			85						90					95	
Leu	Cys	Ala	Leu	Ile	Ala	Leu	Ser	Met	Asn	Ser	Ala	Ala	Tyr	Thr	Thr
			100					105					110		
Gln	Leu	Phe	Tyr	Gly	Ala	Ile	Arg	Ala	Ile	Pro	Glu	Gly	Gln	Trp	Gln
		115					120					125			
Ser	Cys	Gly	Ala	Leu	Gly	Met	Ser	Lys	Lys	Asp	Thr	Leu	Ala	Ile	Leu
	130				135						140				
Leu	Pro	Tyr	Ala	Phe	Lys	Arg	Ala	Leu	Ser	Ser	Tyr	Ser	Asn	Glu	Val
145					150					155					160
Val	Leu	Val	Phe	Lys	Ser	Thr	Ser	Leu	Ala	Tyr	Thr	Ile	Thr	Leu	Met
				165					170					175	
Glu	Val	Met	Gly	His	Gly	Gln	Leu	Leu	Tyr	Gly	Arg	Thr	Tyr	Asp	Val
			180				185						190		
Met	Val	Phe	Gly	Ala	Ala	Gly	Leu	Val	Tyr	Leu	Val	Val	Asn	Gly	Leu
		195				200						205			
Leu	Thr	Leu	Met	Met	Arg	Leu	Ile	Glu	Arg	Lys	Ala	Leu	Ala	Phe	Glu
	210					215					220				
Arg	Arg	Asn													
225															

<210> 9223
 <211> 73
 <212> PRT
 <213> Enterobacter cloacae

<400> 9223

Met	Ala	Lys	Glu	Asp	Asn	Ile	Glu	Met	Gln	Gly	Thr	Val	Leu	Asp	Thr
1				5					10					15	
Leu	Pro	Asn	Thr	Met	Phe	Arg	Val	Glu	Leu	Glu	Asn	Gly	His	Val	Val
			20					25					30		
Thr	Ala	His	Ile	Ser	Gly	Lys	Met	Arg	Lys	Asn	Tyr	Ile	Arg	Ile	Leu
		35					40					45			
Thr	Gly	Asp	Lys	Val	Thr	Val	Glu	Leu	Thr	Pro	Tyr	Asp	Leu	Ser	Lys
	50					55					60				
Gly	Arg	Ile	Val	Phe	Arg	Ser	Arg								
65					70										

<210> 9224
 <211> 96
 <212> PRT
 <213> Enterobacter cloacae

<400> 9224

Thr	Ala	Pro	Thr	Pro	Pro	Val	His	Ser	Ile	Leu	Ile	Tyr	Lys	Ile
1				5				10					15	
Tyr	Glu	Gly	Cys	Arg	Ser	Met	Glu	Met	Gly	Thr	Val	Lys	Trp	Phe
			20					25					30	Asn
Asn	Ala	Lys	Gly	Phe	Gly	Phe	Ile	Cys	Pro	Glu	Gly	Gly	Gly	Glu
			35				40					45		Asp
Ile	Phe	Ala	His	Tyr	Ser	Thr	Ile	Gln	Met	Asp	Gly	Tyr	Arg	Thr
	50					55				60				Leu
Lys	Ala	Gly	Gln	Ser	Val	Arg	Phe	Asp	Val	His	Gln	Gly	Pro	Lys
65					70				75					80
Asn	His	Ala	Ser	Leu	Ile	Val	Pro	Val	Glu	Ala	Glu	Thr	Val	Ala
				85				90						95

<210> 9225

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 9225

Asn	Ser	Asp	Ile	Pro	Pro	Glu	Ala	Gly	Ser	Asn	Met	Ser	Ser	Ile	Val
1				5					10					15	
Asp	Thr	Pro	Tyr	Ser	Thr	Leu	Pro	Gln	Pro	Lys	Ser	Gly	Trp	Gln	Leu
			20					25					30		
Phe	Lys	Ser	Leu	Thr	Ser	Gly	Ser	Leu	Thr	Pro	Gly	Leu	Ala	Trp	Gln
			35				40					45			
Asn	Pro	Ala	Tyr	Arg	Arg	Lys	Phe	Met	Leu	Arg	Ser	Leu	Ala	Thr	Pro
	50					55				60					
Phe	Thr	Thr	Ala	Arg	Leu	Leu	Gly	Asn	Leu	Ala	Lys	Gln	Pro	Arg	Leu
65					70				75						80
Met	Gln	Ile	Leu	Arg	Val	Gln	Pro	Gly	Leu	Pro	Cys	Arg	Leu	His	Arg
				85				90						95	
Pro	Trp	Leu	Thr	Val	Asn	Met	Gly	Arg	Gln	Asn	Thr	Leu	Asp	Ala	Leu
			100				105						110		
Asn	Asp	His	Tyr	Gln	Met	Met	Ser	Arg	His	Leu	Pro	Ala	Ser	Leu	Leu
	115					120						125			
Asn	Gly	Tyr	Leu	Ser	Ser	Gln	Gly	Ile	Thr	Leu	Val	Thr	Leu	Thr	Gly
	130					135					140				
Lys	Glu	Glu	Gln	Gln	Phe	Ser	Val	Arg	Leu	Ser	Ala	Asp	Ala	Phe	Leu
145					150					155					160
Asp	Lys	Glu	Gly	Glu	Ala	Thr	Leu	Thr	Phe	Cys	Asp	His	Gln	Asn	Thr
				165				170						175	
Val	Leu	Ala	Glu	Leu	Thr	Phe	Thr	Leu	Cys	Lys	Tyr	Gln	Gly	Lys	Ser
			180				185						190		
Thr	Leu	Phe	Ile	Gly	Gly	Met	Gln	Gly	Ala	Lys	Ala	His	Val	Pro	His
		195				200						205			
Glu	His	Ile	Gln	Leu	Ala	Thr	Lys	Ala	Cys	His	Gly	Leu	Phe	Pro	Lys
	210					215					220				
Arg	Leu	Leu	Val	Glu	Ala	Val	Met	Thr	Leu	Ala	Gly	Ala	Phe	Pro	Val
225				230						235					240
Glu	Gln	Ile	Leu	Ala	Val	Ser	Asn	Ala	Thr	His	Ile	Tyr	Arg	Ser	Trp
				245					250					255	
Arg	Tyr	Arg	Lys	Lys	Lys	Glu	Gly	Lys	Leu	Leu	Ala	Asp	Tyr	Asp	Ser
			260					265					270		
Phe	Trp	Arg	Ser	Leu	Gly	Gly	Gln	Gln	Gln	Asp	Asn	Gly	Asn	Phe	Ala
		275				280						285			
Leu	Pro	Leu	Thr	Met	Pro	Arg	Lys	Pro	Met	Glu	Glu	Ile	Ala	Ser	Lys
	290					295					300				
Lys	Arg	Ser	Glu	Tyr	Arg	Arg	Arg	Tyr	Thr	Leu	Leu	Asp	Ser	Leu	Ile
305					310					315					320

Gln Gln Val Ser Gln Ala Thr Asp Arg
325 330

<210> 9226

<211> 324

<212> PRT

<213> Enterobacter cloacae

<400> 9226

Leu	Met	Thr	Met	Pro	Thr	Ser	Gln	Cys	Pro	Trp	Arg	Met	Gln	Val	His
1				5					10					15	
His	Ile	His	Gln	Glu	Thr	Pro	Asp	Val	Trp	Thr	Leu	Ser	Leu	Leu	Cys
			20					25					30		
His	Asp	Tyr	Tyr	Pro	Tyr	Arg	Pro	Gly	Gln	Tyr	Ala	Leu	Val	Ser	Val
		35					40					45			
Arg	Asn	Ser	Ala	Asn	Thr	Leu	Arg	Ala	Tyr	Thr	Leu	Ser	Ser	Thr	Pro
	50					55					60				
Gly	Val	Ser	Glu	Tyr	Ile	Thr	Leu	Thr	Val	Arg	Arg	Ile	Asp	Asp	Gly
65					70				75						80
Ala	Gly	Ser	Glu	Trp	Leu	Thr	Arg	Asp	Val	Lys	Arg	Gly	Asp	Tyr	Ile
			85						90					95	
Trp	Leu	Ser	Asp	Ala	Gln	Gly	Glu	Phe	Thr	Cys	Asp	Asp	Lys	Thr	Glu
			100					105					110		
Asp	Lys	Phe	Leu	Leu	Leu	Ala	Ala	Gly	Cys	Gly	Val	Thr	Pro	Ile	Met
		115					120					125			
Ser	Met	Arg	Arg	Trp	Leu	Ala	Lys	Tyr	Arg	Pro	Gln	Ala	Asp	Val	Gln
	130					135					140				
Val	Ile	Phe	Ser	Val	Arg	Ser	Pro	Glu	Asp	Val	Ile	Phe	Ala	Glu	Glu
145					150					155					160
Trp	Arg	Asn	Tyr	Pro	Val	Thr	Leu	Val	Ala	Glu	His	Asn	Ala	Thr	His
			165						170					175	
Gly	Phe	Val	Ala	Gly	Arg	Leu	Ser	Arg	Glu	Leu	Leu	Gln	Ser	Val	Pro
			180					185					190		
Asp	Ile	Ala	Asn	Arg	Thr	Val	Met	Thr	Cys	Gly	Pro	Ala	Pro	Tyr	Met
	195						200					205			
Glu	Ile	Val	Glu	Lys	Glu	Val	Lys	Ala	Leu	Gly	Val	Thr	Arg	Phe	Phe
	210					215					220				
Lys	Glu	Gln	Phe	Phe	Thr	Pro	Val	Ala	Ala	Ala	Ala	Thr	Ser	Gly	Met
225					230					235					240
Lys	Phe	Thr	Lys	Leu	Gln	Pro	Ala	Gln	Thr	Phe	Phe	Gly	Arg	Val	Gly
			245						250					255	
Thr	Thr	Leu	Leu	Glu	Ala	Leu	Glu	Ser	Asn	Asn	Val	Pro	Val	Ala	Ala
		260					265						270		
Ala	Cys	Arg	Ala	Gly	Val	Cys	Gly	Cys	Cys	Lys	Thr	Lys	Val	Val	Ser
		275					280					285			
Gly	Glu	Tyr	Thr	Val	Thr	Ser	Thr	Met	Thr	Leu	Thr	Asp	Ala	Glu	Ile
	290					295					300				
Ala	Glu	Gly	Tyr	Val	Leu	Ala	Cys	Ser	Cys	His	Pro	Gln	Gly	Asp	Leu
305					310					315					320
Val	Leu	Ala													

<210> 9227

<211> 337

<212> PRT

<213> Enterobacter cloacae

<400> 9227

Gly	His	Ala	Met	Ile	Asp	Leu	Arg	Ser	Asp	Thr	Val	Thr	Arg	Pro	Ser
1				5					10					15	
Arg	Ala	Met	Leu	Glu	Glu	Met	Met	Ala	Ala	Pro	Val	Gly	Asp	Asp	Val

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<210> 9228
<211> 370
<212> PRT
<213> Enterobacter cloacae
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Leu 1	Asn	Lys	Thr	Leu 5	Asn	Leu	Ser	Pro	Phe 10	Pro	Leu	Gln	His	Ile 15	Val
Ile	His	Glu	Arg 20	Met	Arg	Thr	Lys	Phe 25	Phe	Ser	Thr	Gln	Trp 30	Ile	Val
Met	Lys	Val	Leu 35	Val	Thr	Gly	Ala 40	Thr	Ser	Gly	Leu	Gly	Arg 45	Asn	Ala
Val	Glu	Phe	Leu 50	Arg	Asn	Lys 55	Gly	Ile	Ser	Val	Arg	Ala	Thr 60	Gly	Arg
Asn 65	Glu	Ala	Met	Gly 70	Lys	Leu	Leu	Gln	Lys 75	Met	Gly	Ala	Glu	Phe 80	Val
His	Ala	Asp	Leu 85	Thr	Glu	Leu	Val	Ser	Ser 90	Gln	Ala	Lys	Val	Met 95	Leu
Ala	Gly	Ile	Asp	Thr	Leu	Trp	His	Cys	Ser	Ser	Phe	Thr	Ser	Pro	Trp

```
<210> 9229
<211> 232
<212> PRT
<213> Enterobacter cloacae
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Gln	Ala	Pro	Pro	Gly	Met	Asn	Val	Gly	Leu	Ala	Val	Cys	Ala	Leu	Ile
1				5					10					15	
Ile	Gly	Leu	Val	Leu	Ala	Met	Phe	Phe	Ala	Val	Trp	Glu	Ser	Val	Lys
			20					25					30		
Trp	Arg	Pro	Val	Ala	Trp	Leu	Gly	Ser	Ala	Leu	Val	Thr	Val	Leu	Arg
		35					40					45			
Gly	Leu	Pro	Glu	Ile	Leu	Val	Phe	Leu	Phe	Ile	Tyr	Phe	Gly	Ser	Ser
	50					55					60				
Gln	Leu	Leu	Leu	Thr	Leu	Ser	Asp	Gly	Phe	Thr	Ile	Asn	Leu	Gly	Phe
65				70						75					80
Ala	Gln	Ile	Pro	Val	Gln	Met	Gln	Ile	Glu	Asn	Phe	Asp	Val	Ser	Pro
			85						90					95	
Phe	Leu	Cys	Gly	Val	Ile	Ala	Leu	Ser	Leu	Leu	Tyr	Ser	Ala	Tyr	Ala
			100					105					110		
Ser	Gln	Thr	Leu	Arg	Gly	Ala	Leu	Lys	Ala	Val	Pro	Gln	Gly	Gln	Trp
		115					120					125			
Glu	Ser	Gly	Gln	Ala	Leu	Gly	Leu	Ser	Lys	Ala	Ala	Ile	Phe	Phe	Arg
	130					135					140				
Leu	Val	Met	Pro	Gln	Met	Trp	Arg	His	Ala	Leu	Pro	Gly	Leu	Gly	Asn

145		150		155		160
Gln Trp Leu Val	Leu Lys Asp Thr	Ala Leu Val Ser	Leu Ile Ser			
	165	170	175			
Val Asn Asp Leu	Met Leu Gln Thr	Lys Ser Ile Ala	Thr Arg Thr Gln			
	180	185	190			
Glu Pro Phe Thr	Trp Tyr Ile Val	Ala Ala Ile Tyr	Leu Val Ile			
	195	200	205			
Thr Leu Leu Ser	Gln Tyr Val Leu	Lys Arg Ile Asp	Leu Arg Ala Thr			
	210	215	220			
Arg Phe Glu Arg	Arg Pro Gly					
225	230					

<210> 9230

<211> 592

<212> PRT

<213> Enterobacter cloacae

<400> 9230

Ala Arg Arg Leu	Arg Arg Ala Cys Cys	Arg Ala Gly Ala	Val Cys Asp
1	5	10	15
Pro Ala Gly Glu	Pro Ser Gly Gly	Tyr Leu Met Arg	Ala Leu Pro
	20	25	30
Tyr Leu Ala Leu	Tyr Lys Arg His	Lys Trp Met Leu	Thr Leu Gly Ile
	35	40	45
Val Leu Ala Ile	Val Thr Leu Leu	Ala Ser Ile Gly	Leu Leu Thr Leu
	50	55	60
Ser Gly Trp Phe	Leu Ser Ala Ser	Ala Ala Gly Phe	Ala Gly Leu
	65	70	75
Tyr Ser Phe Asn	Tyr Met Leu Pro	Ala Ala Gly Val	Arg Gly Thr Ala
	85	90	95
Ile Thr Arg Thr	Ala Gly Arg Tyr	Phe Glu Arg Leu	Val Ser His Asp
	100	105	110
Ala Thr Phe Arg	Val Leu Gln His	Leu Arg Ile Tyr	Thr Phe Ser Lys
	115	120	125
Leu Leu Pro Leu	Ser Pro Ala Gly	Leu Ala Arg Phe	Arg Gln Gly Glu
	130	135	140
Leu Leu Asn Arg	Val Val Ala Asp	Val Asp Thr Leu	Asp His Leu Tyr
	145	150	155
Leu Arg Val Ile	Ser Pro Met Val	Gly Ala Phe Val	Val Ile Val Val
	165	170	175
Val Thr Leu Gly	Leu Ser Phe Leu	Asp Val Pro Ile	Ala Leu Thr Leu
	180	185	190
Gly Gly Ile Met	Leu Met Thr Leu	Ile Ile Leu Pro	Pro Leu Phe Tyr
	195	200	205
Arg Ala Gly Lys	Thr Thr Gly Glu	Asn Leu Thr Arg	Leu Arg Gly Glu
	210	215	220
Tyr Arg Gln Gln	Leu Thr Ala Trp	Leu Gln Gly Gln	Ala Glu Leu Thr
	225	230	235
Leu Phe Gly Ala	Ser Lys Arg Tyr	Arg Ala Arg Met	Glu Asn Thr Glu
	245	250	255
Leu Asn Trp His	Glu Ala Gln Arg	Arg Gln Ser Glu	Leu Thr Ala Phe
	260	265	270
Ser Gln Ala Leu	Met Met Leu Ile	Gly Gly Ile Ala	Val Ile Ala Met
	275	280	285
Leu Trp Met Ala	Ser Gly Gly Val	Gly Asp Asn Ala	Gln Pro Gly Pro
	290	295	300
Leu Ile Ala Leu	Phe Val Phe Cys	Ala Leu Ala Phe	Glu Ala Leu
	305	310	315
Ala Pro Val Thr	Gly Ala Phe Gln	His Leu Gly Gln	Val Ile Ala Ser
	325	330	335
Ala Leu Arg Ile	Thr Asp Ile Ala	Glu Gln Glu Pro	Glu Val Lys Phe

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<210> 9231
<211> 250
<212> PRT
<213> Enterobacter cloacae
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<400> 9231															
Thr	Ile	Phe	Val	Ala	Ser	Ser	Leu	Ala	Tyr	Trp	Ser	Ser	Val	Val	Met
1				5				10					15		
Arg	Leu	Val	Gln	Leu	Ser	Arg	His	Asn	Ile	Ala	Phe	Pro	Ser	Pro	Glu
			20					25				30			
Gly	Ala	Leu	Arg	Glu	Pro	Asn	Gly	Leu	Leu	Ala	Leu	Gly	Gly	Asp	Leu
		35					40					45			
Ser	Pro	Ala	Arg	Leu	Leu	Met	Ala	Tyr	Gln	Arg	Gly	Ile	Phe	Pro	Trp
	50					55					60				
Phe	Ser	Pro	Gly	Asp	Pro	Ile	Leu	Trp	Trp	Ser	Pro	Asp	Pro	Arg	Ala
65					70					75				80	
Val	Leu	Trp	Pro	Gly	Gln	Phe	His	Leu	Ser	Arg	Ser	Met	Lys	Arg	Phe
				85					90				95		
His	Ala	Lys	Ser	Pro	Phe	Arg	Val	Thr	Leu	Asn	His	Ala	Phe	Gly	Gln
			100					105					110		
Val	Ile	Glu	Gly	Cys	Ala	Glu	Asp	Arg	His	Glu	Gly	Thr	Trp	Ile	Thr
		115					120					125			
Arg	Asp	Ile	Ile	Ile	Ala	Tyr	His	Gln	Leu	His	Glu	Leu	Gly	Tyr	Ala
	130					135					140				
His	Ser	Ile	Glu	Val	Trp	Lys	Glu	Asp	Asn	Leu	Val	Gly	Gly	Met	Tyr
145					150				155					160	
Gly	Val	Ala	Gln	Gly	Thr	Leu	Phe	Cys	Gly	Glu	Ser	Met	Phe	Ser	Arg
				165					170					175	
Ala	Thr	Asn	Ala	Ser	Lys	Thr	Ala	Leu	Leu	Val	Phe	Ser	Glu	Glu	Phe

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<210> 9232
<211> 578
<212> PRT
<213> Enterobacter cloacae
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Arg 1	Arg	Arg	Thr	Thr 5	Met	Lys	Gln	Thr	Val 10	Ala	Ala	Tyr	Ile	Ala 15	Lys
Thr	Leu	Glu	Gln 20	Ala	Gly	Val	Lys	Arg 25	Ile	Trp	Gly	Val 30	Thr	Gly	Asp
Ser	Leu	Asn 35	Gly	Leu	Ser	Asp	Ser 40	Leu	Asn	Lys	Met	Lys 45	Thr	Ile	Glu
Trp	Met 50	Pro	Thr	Arg	His	Glu 55	Glu	Val	Ala	Ala	Phe 60	Ala	Ala	Gly	Ala
Glu 65	Ala	Gln	Leu	Thr 70	Gly	Glu	Leu	Ala	Val	Cys 75	Ala	Gly	Ser	Cys	Gly
Pro	Gly	Asn	Leu	His 85	Leu	Ile	Asn	Gly	Leu 90	Phe	Asp	Cys	His	Arg 95	Asn
His	Val	Pro	Val 100	Leu	Ala	Ile	Ala	Ala 105	His	Ile	Pro	Ser	Ser	Glu	Ile
Gly	Ser	Gly 115	Tyr	Phe	Gln	Glu	Thr 120	His	Pro	Gln	Glu	Leu 125	Phe	Arg	Glu
Cys	Ser	His	Tyr	Cys	Glu	Leu 135	Val	Ser	Ser	Pro	Glu	Gln 140	Ile	Pro	Gln
Val 145	Leu	Ala	Ile	Ala 150	Met	Arg	Lys	Ala	Ile	Leu 155	Asn	Arg	Gly	Val	Ser
Val	Val	Val	Leu	Pro 165	Gly	Asp	Val	Ala	Leu 170	Lys	Ala	Ala	Pro	Glu	Thr
Ala	Thr	Thr	His 180	Trp	Tyr	Ser	Ala	Pro 185	Gln	Pro	Thr	Ile 190	Thr	Pro	Ala
Glu	Glu	Glu 195	Leu	Lys	Lys	Leu	Ala 200	Gln	Leu	Leu	Arg	Tyr 205	Ser	Ser	Asn
Ile	Ala 210	Leu	Met	Cys	Gly	Ser 215	Gly	Cys	Ala	Gly	Ala	His 220	Lys	Glu	Leu
Val 225	Glu	Phe	Ala	Gly	Lys 230	Leu	Lys	Ala	Pro	Val 235	Val	His	Ala	Leu	Arg
Gly	Lys	Glu	His 245	Val	Glu	Tyr	Asp	Asn 250	Pro	Tyr	Asp	Val 255	Gly	Met	Thr
Gly	Leu	Ile	Gly 260	Phe	Ser	Ser	Gly	Phe 265	His	Thr	Met	Met 270	Asn	Ala	Asp
Thr	Leu	Ile 275	Leu	Leu	Gly	Thr	Gln 280	Phe	Pro	Tyr	Arg	Ala 285	Phe	Tyr	Pro
Thr	Asp 290	Ala	Lys	Ile	Ile	Gln 295	Ile	Asp	Ile	Asn	Pro 300	Gly	Ser	Ile	Gly
Ala 305	His	Ser	Lys	Val	Asp 310	Met	Ala	Leu	Ile	Gly 315	Asp	Ile	Lys	Ser	Thr
Leu	Ala	Ala	Leu	Leu 325	Pro	Leu	Leu	Glu	Glu 330	Lys	Thr	Asp	Arg	Lys	Phe
Leu	Asp	Lys	Ala 340	Leu	Ser	Asp	Tyr	Arg 345	Asp	Ala	Arg	Lys 350	Gly	Leu	Asp
Asp	Leu	Ala	Lys	Pro	Ser	Glu	Lys	Ala	Ile	His	Pro	Gln	Tyr	Leu	Ala

355										360				365					
Gln	Gln	Ile	Ser	His	Phe	Ala	Asp	Gly	Asp	Ala	Ile	Phe	Thr	Cys	Asp				
370						375				380									
Val	Gly	Thr	Pro	Thr	Val	Trp	Ala	Ala	Arg	Tyr	Leu	Lys	Met	Asn	Gly				
385					390				395						400				
Lys	Arg	Arg	Leu	Leu	Gly	Ser	Phe	Asn	His	Gly	Ser	Met	Ala	Asn	Ala				
				405				410						415					
Met	Pro	Gln	Ala	Leu	Gly	Ala	Lys	Ala	Thr	Ala	Pro	Glu	Arg	Gln	Val				
		420						425						430					
Val	Ala	Met	Cys	Gly	Asp	Gly	Gly	Phe	Ser	Met	Leu	Met	Gly	Asp	Phe				
435						440				445									
Leu	Ser	Val	Ala	Gln	Met	Lys	Leu	Pro	Leu	Lys	Ile	Val	Val	Phe	Asn				
450					455				460										
Asn	Ser	Val	Leu	Gly	Phe	Val	Ala	Met	Glu	Met	Lys	Ala	Gly	Gly	Tyr				
465					470				475						480				
Leu	Thr	Asp	Gly	Thr	Glu	Leu	His	Asp	Thr	Asn	Phe	Ala	Arg	Ile	Ala				
				485				490						495					
Glu	Ala	Cys	Gly	Ile	Thr	Gly	Ile	Arg	Val	Glu	Lys	Ala	Ser	Glu	Val				
500								505						510					
Asp	Asp	Ala	Leu	Gln	Arg	Ala	Phe	Ala	Ile	Asp	Gly	Pro	Val	Leu	Val				
515						520				525									
Asp	Val	Val	Val	Ala	Lys	Glu	Glu	Leu	Ala	Ile	Pro	Pro	Gln	Ile	Lys				
530						535				540									
Leu	Glu	Gln	Ala	Lys	Gly	Phe	Ser	Leu	Tyr	Met	Leu	Arg	Ala	Ile	Ile				
545					550				555						560				
Ser	Gly	Arg	Gly	Asp	Glu	Val	Ile	Glu	Leu	Ala	Lys	Thr	Asn	Trp	Leu				
				565				570						575					

Arg

<210> 9233

<211> 492

<212> PRT

<213> Enterobacter cloacae

<400> 9233

Asn	Thr	Gly	Arg	Arg	Phe	Tyr	Ser	Val	Lys	Glu	His	Thr	Val	Pro	Gln		
1			5						10				15				
Arg	Ile	Leu	Val	Leu	Gly	Ala	Ser	Gly	Tyr	Ile	Gly	Gln	His	Leu	Thr		
		20						25				30					
Thr	Ala	Leu	Ser	Gln	Gln	Gly	His	Gln	Val	Leu	Ala	Ala	Ala	Arg	Asn		
		35				40				45							
Thr	Glu	Arg	Leu	Gln	Lys	Leu	His	Leu	Pro	Gly	Val	Thr	Cys	His	Asn		
50				55				60									
Val	Asp	Leu	Asn	Trp	Pro	Lys	Ala	Leu	Pro	Ala	Leu	Leu	Glu	Gly	Val		
65			70				75				80				85		
Asp	Thr	Leu	Tyr	Tyr	Leu	Val	His	Ser	Met	Gly	Glu	Gly	Gly	Asp	Phe		
		85				90				95							
Ile	Ala	His	Glu	Arg	Gln	Val	Ala	Met	Asn	Val	Arg	Asp	Ala	Leu	Arg		
		100				105				110							
Gln	Thr	Pro	Val	Lys	Gln	Val	Ile	Phe	Leu	Ser	Ser	Leu	Gln	Ala	Pro		
115						120				125							
Glu	Asn	Glu	Gln	Ser	Asp	His	Leu	Arg	Ala	Arg	Gln	Leu	Thr	Ala	Glu		
130				135				140									
Thr	Leu	Arg	Ser	Ala	Arg	Ile	Pro	Val	Thr	Glu	Leu	Arg	Ala	Gly	Ile		
145			150				155				160				165		
Ile	Val	Gly	Ala	Gly	Ser	Ala	Ala	Phe	Glu	Val	Met	Arg	Asp	Met	Val		
		165				170				175							
Tyr	Asn	Leu	Pro	Val	Leu	Thr	Pro	Pro	Arg	Trp	Val	Arg	Ser	Arg	Thr		
180						185				190							
Thr	Pro	Ile	Ala	Leu	Glu	Asn	Leu	Leu	His	Tyr	Leu	Val	Ala	Leu	Leu		

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<210> 9234
<211> 606
<212> PRT
<213> Enterobacter cloacae
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Pro 1	Leu	Arg	Gly	Ile 5	Thr	Leu	Leu	Ser	Ala 10	Ala	Val	Ala	Ile	Pro 15	Asn
Gln	Arg	Arg	Ser 20	Val	Val	Met	Tyr	Gln 25	Ser	His	Phe	Asn 30	Phe	Lys	Asn
Pro	Pro	Phe 35	Arg	Thr	Ile	Thr	Arg 40	Leu	Ser	Gly	Asp 45	Phe	Leu	Val	Pro
Tyr	His 50	Gln	Asp	Val	Phe	Asn 55	Leu	Leu	Lys	Glu 60	Lys	Thr	Gln	Leu	Ala
Gly 65	Ile	Ile	Gly	Leu 70	Phe	Cys	Asp	Asp	Ala 75	Pro	Leu	Leu	Ser	His 80	Phe
Ile	Asp	Ala	Leu 85	Lys	Ala	Ser	Ser	Asn 90	Thr	Val	Ile	Ala 95	Ile	Asn	Ala
Phe	Pro	Lys 100	Leu	Ser	Ala	Ser	Ser	Leu 105	Leu	Tyr	Lys	Leu 110	Asn	Pro	Gly
Thr	Lys 115	Ala	Ile	Lys	Asp	Arg	Met 120	Gln	Ala	Val	Asp 125	Ala	Val	Leu	Arg
Gln	Trp	Gln	Glu	Gly	Lys	Ala	Lys	Ser	Arg	Val	Leu	Thr	Ile	Ala	His

130	135	140
Ser Glu Ala Met Lys Glu Ser Cys Arg Glu Val Leu Gly Thr Leu Leu		
145	150	155
Thr Arg Ala Gln Glu Leu Asn Phe Arg Leu Ala Val Val Leu Thr Gly		
	165	170
Ala Ala Glu Gln Glu Arg Leu Leu Lys Gln Pro Glu Leu Arg Glu Tyr		
	180	185
Thr His Thr His His Val Leu Arg Pro Leu Thr Cys Arg Glu Tyr Leu		
	195	200
Ser Tyr Val Gln Ala Gln Cys Glu Glu His Asp Cys Glu His Ser Pro		
	210	215
Leu Pro Pro Ala Arg Val Arg Lys Met His Thr Leu Thr Lys Gly Asn		
225	230	235
Ile Ser Lys Leu Asn Ala Leu Ala His Leu Ser Met Leu Ala Ala Trp		
	245	250
Thr Glu Arg Ala Ala Gln Val Ser Pro Arg His Leu Arg Leu Ala Ala		
	260	265
Gly Glu Ile Leu Pro Ala Lys Lys His Gly Lys Arg Leu Ala Thr Val		
	275	280
Gly Leu Phe Ala Ser Val Leu Phe Ala Ala Cys Gly Trp Tyr Phe Thr		
	290	295
Ser Ser Ile Gly Ala Arg Leu Pro Ile Gln Leu Pro Val Pro Val Ser		
305	310	315
Trp Lys Gln Gln Thr Pro Lys Pro Glu Ala Ala Val Val Pro Val Ile		
	325	330
Asp Asn Glu Ile Val Asn Gln Pro Asp Ala Met His Gln Leu Tyr Leu		
	340	345
Met Trp Gly Tyr Asp Ala Ser Ala Asp Asp Ala Leu Cys Gln Asn Ala		
	355	360
Ala Lys Val Asn Leu Met Cys Lys Gln Gly Asn Ala Ser Pro Glu Thr		
	370	375
Leu Ala Gln Glu Gly Tyr Pro Trp Val Ser Glu Leu Lys Thr Ser Gly		
385	390	395
His Leu Asn Tyr Ala Val Val Ala Arg Val Gly Asp Thr Ser Ile Asp		
	405	410
Leu Leu Met Asn Asn Arg Thr Trp Gln Val Ser Arg Ser Trp Phe Asn		
	420	425
Arg His Ala Thr Gly Asn Phe Thr Gln Leu His Arg Leu Thr Pro Glu		
	435	440
Gly Lys Asp Ala Ile Gly Thr Ala Ser Asp Ser Lys Asp Met Ala Trp		
	450	455
Leu Asp Gln Gln Leu Ser Ile Ala Leu Ser Gln Pro Glu Thr His Ala		
465	470	475
Arg Ile Trp Thr Ala Glu Met Met Lys Arg Thr Arg Glu Phe Gln Gln		
	485	490
Lys Met His Leu His Val Asp Gly Ile Pro Gly Glu Glu Thr Leu Met		
	500	505
Gln Leu Met Arg Val Thr Asn Ser Thr Pro Gly Val Leu Ile Gln Ala		
	515	520
Thr Arg Thr Thr Pro Asp Ala Lys Met Gln Glu Glu Asp Ser Leu Met		
	530	535
Ser Thr Ile Cys Leu Ala Ala Gln Arg Ser Tyr Thr Thr Gly Glu Ser		
545	550	555
Val Trp Phe Ser Tyr Arg Leu Pro Ser Leu Glu Lys Arg Ile Arg Gln		
	565	570
Asn Ser Val Met Ala Gly Arg Pro Leu Arg His Ala Gly Cys Arg Pro		
	580	585
Val Tyr Ala Arg Leu Leu Glu Pro Ala Pro Pro Gly Thr		
	595	600
		605

<211> 180
 <212> PRT
 <213> Enterobacter cloacae

<400> 9235

Leu	Ile	Asn	Lys	Glu	Ile	Asn	Met	Arg	Tyr	Ser	Ala	Leu	Thr	Leu	Leu
1				5					10					15	
Val	Pro	Cys	Ala	Leu	Val	Leu	Ser	Ala	Cys	Thr	Thr	Pro	Val	Thr	Pro
			20					25					30		
Ala	Phe	Lys	Asp	Ile	Gly	Thr	Arg	Ser	Gly	Pro	Cys	Ile	Glu	Gly	Gly
		35					40				45				
Pro	Asp	Ala	Val	Ala	Gln	Gln	Phe	Tyr	Asp	Tyr	Arg	Ile	Gln	His	Arg
	50					55					60				
Gly	Asn	Asp	Leu	Thr	Ala	Leu	Arg	Pro	Tyr	Leu	Ser	Asp	Asn	Leu	Ala
65					70					75				80	
Lys	Leu	Leu	Thr	Asp	Ala	Ser	Arg	Asp	Pro	Gln	His	Asn	Ala	Leu	Leu
				85					90					95	
Ser	Ser	Asp	Pro	Phe	Ser	Ser	Arg	Ala	Thr	Leu	Pro	Asp	Ser	Ala	Asp
			100					105					110		
Val	Ala	Ser	Ala	Ser	Thr	Ile	Pro	Asn	Thr	Asp	Ala	Arg	Asn	Ile	Pro
		115					120					125			
Leu	Arg	Val	Lys	Leu	Thr	Gln	Gly	Thr	Gln	Thr	Trp	Gln	Asp	Glu	Val
	130					135					140				
Leu	Met	Ile	Arg	Glu	Gly	Gln	Cys	Trp	Ala	Val	Asp	Asp	Val	Arg	Tyr
145					150					155					160
Ile	Gly	Gly	Ser	Val	His	Ala	Pro	Ala	Gly	Thr	Leu	Arg	Gln	Ser	Ile
				165					170					175	
Glu	Asn	Arg													
															180

<210> 9236
 <211> 225
 <212> PRT
 <213> Enterobacter cloacae

<400> 9236

Met	Pro	Arg	Pro	Ser	Tyr	Phe	Lys	Lys	Ser	His	Leu	Lys	Ser	Gly	Ile
1				5					10					15	
Thr	Met	Leu	Ser	Ile	Tyr	Gly	Lys	Lys	Leu	Arg	Pro	Gln	Tyr	Glu	Met
			20					25					30		
Glu	Arg	Ile	Ile	Ser	Ala	Thr	Ala	Gly	Val	Glu	Glu	Lys	Thr	Leu	Lys
		35					40					45			
Lys	Trp	Gln	Lys	Ile	Ser	Thr	Thr	Asp	Ser	Gly	Tyr	Ile	His	Val	Ile
	50					55				60					
Val	Ser	Gly	Glu	Val	Glu	Phe	Arg	Arg	Glu	Ser	Asp	Glu	Leu	Cys	Met
65					70				75					80	
Phe	Thr	Val	Thr	Gly	Gln	Cys	Leu	Phe	Gly	Leu	Ser	Ser	Met	Tyr	Tyr
				85					90					95	
Asn	Ala	Thr	His	Met	Tyr	Gly	Leu	Val	Arg	Thr	Asn	Thr	Val	Val	Arg
			100					105					110		
Ser	Ile	Lys	Lys	Glu	Val	Phe	Ala	Gln	Leu	Met	Thr	Glu	Lys	Asn	Leu
		115					120					125			
Trp	Pro	Asp	Leu	Thr	Lys	Val	Leu	Ser	Trp	Tyr	Ile	Cys	Val	Met	Ser
	130					135					140				
Lys	Arg	Asp	Asp	Val	Leu	Val	Ala	Arg	Ser	Ala	Tyr	Ser	Val	Val	Arg
145					150					155					160
Glu	Phe	Leu	Tyr	Glu	Ile	Asn	Asp	Leu	Thr	Val	His	Gln	Gln	Arg	Asp
				165					170					175	
Ile	Asn	Val	Tyr	Asp	Tyr	Ile	Gln	Glu	Tyr	Thr	Asn	Leu	Ala	Arg	Ser
		180						185					190		
Thr	Ile	Ile	Lys	Ile	Leu	Ser	Asp	Leu	Lys	Lys	Gly	Gln	Tyr	Ile	Val

		195					200				205				
Val	Glu	Lys	Gly	Arg	Leu	Leu	Asn	Leu	Thr	Ala	Leu	Pro	Glu	Lys	Tyr
	210					215					220				

225

<210> 9237

<211> 431

<212> PRT

<213> Enterobacter cloacae

<400> 9237

Lys	Arg	Ala	Ala	Glu	Gly	Asp	Arg	Arg	Arg	Asp	Val	Ser	Gly	Arg	Ser
1				5					10					15	
His	Ala	Arg	His	Arg	Arg	Ala	Trp	Gly	Gly	Cys	Ile	Met	Ala	Phe	Tyr
			20					25					30		
Ala	Trp	Thr	Ala	Thr	Asp	Ala	Ala	Gly	Lys	Thr	Gln	Arg	Gly	Thr	Leu
			35				40					45			
Gln	Ala	Glu	Gly	Gln	Lys	Gln	Val	Arg	Gln	Trp	Leu	Arg	Glu	Gln	Lys
	50					55					60				
Leu	Met	Pro	Val	Ser	Ile	Thr	Glu	Thr	Arg	Glu	Thr	Ala	Ala	Gly	Gly
65					70					75					80
Lys	Ala	Lys	Thr	Gly	Val	Lys	Leu	Ser	Thr	Pro	Val	Leu	Ser	Met	Phe
				85					90					95	
Thr	Arg	Gln	Leu	Ser	Thr	Leu	Val	Asn	Ala	Ala	Leu	Pro	Leu	Glu	Ser
			100					105					110		
Ala	Leu	Lys	Ala	Ile	Ser	Lys	Gln	Thr	Glu	Asp	Lys	Lys	Leu	Ala	Ala
		115					120					125			
Met	Val	Val	Glu	Ile	Arg	Glu	Lys	Val	Val	Glu	Gly	His	Thr	Leu	Phe
	130					135					140				
Asp	Ala	Phe	Ser	Gln	Phe	Pro	Arg	Thr	Phe	Asp	Lys	Leu	Tyr	Cys	Thr
145					150					155					160
Leu	Val	Met	Ala	Gly	Glu	Lys	Thr	Gly	His	Leu	Gly	Asp	Val	Leu	Glu
			165					170						175	
Lys	Leu	Ala	Glu	Tyr	Asn	Glu	Gln	Arg	Gln	Lys	Met	Lys	Ser	Lys	Leu
		180						185					190		
Thr	Gln	Ala	Met	Val	Tyr	Pro	Ile	Thr	Leu	Thr	Val	Val	Ala	Ile	Ala
		195					200					205			
Val	Ile	Ser	Ile	Leu	Leu	Val	Ala	Val	Val	Pro	Gln	Val	Ile	Glu	Gln
	210					215					220				
Phe	Thr	His	Met	Lys	Gln	Gln	Leu	Pro	Ile	Thr	Thr	Arg	Thr	Leu	Ile
225				230						235					240
Ala	Val	Ser	Asp	Phe	Leu	Gln	Ala	Trp	Gly	Ile	Tyr	Ile	Val	Gly	Ile
			245						250					255	
Leu	Gly	Gly	Gly	Phe	Ile	Gly	Phe	Lys	Thr	Trp	Leu	Arg	Asn	Ala	Lys
		260						265					270		
Asn	Arg	Phe	Arg	Trp	His	Ser	Trp	Leu	Val	Asn	Gly	Ser	Pro	Ile	Lys
	275						280					285			
Lys	Leu	Val	Cys	Ala	Ile	Asn	Ser	Ala	Arg	Tyr	Ile	Arg	Thr	Leu	Ser
	290					295					300				
Ile	Leu	Gln	Ala	Ser	Ser	Val	Pro	Leu	Leu	Glu	Gly	Met	Tyr	Ile	Ala
305				310						315					320
Met	Asp	Gly	Ile	Glu	Asn	Arg	Tyr	Ala	Arg	Gln	Val	Leu	Glu	Gln	Ala
			325						330					335	
Ala	Asp	Thr	Val	Arg	Gln	Gly	Ala	Ser	Leu	Tyr	Ala	Ala	Leu	Glu	Gln
		340					345						350		
Ala	Lys	Leu	Phe	Pro	Pro	Thr	Met	Leu	Tyr	Met	Ile	Ala	Ser	Gly	Glu
	355						360					365			
Glu	Ser	Gly	Glu	Leu	Gly	Asn	Leu	Met	Asp	Arg	Ala	Ala	Glu	Asn	Gln
	370					375					380				
Glu	Ser	Ala	Leu	Gln	His	Arg	Ile	Thr	Leu	Thr	Leu	Ser	Val	Phe	Glu

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<210> 9238
<211> 151
<212> PRT
<213> Enterobacter cloacae
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<210> 9239
<211> 129
<212> PRT
<213> Enterobacter cloacae
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<210>	9240
<211>	162
<212>	PRT

<213> Enterobacter cloacae

<400> 9240

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Met Lys Glu Arg Ile Ala Gln Leu Lys Ala Arg Tyr Gln Asn Tyr Ser
1      5      10      15
Ala Arg Glu Lys Ile Ile Leu Lys Ile Cys Ala Val Ala Ile Val Gly
20      25      30
Ala Ala Val Tyr Tyr Thr Gly Val Ile Pro Leu Asp Asn Met Ile Lys
35      40      45
Asn Ser Lys Ser Thr Leu Lys Arg Gln Lys Glu Thr Leu Asn Trp Met
50      55      60
Arg Ser Glu Ile Asp Lys Asn His Leu Gln Ile Gln Leu Val Lys Thr
65      70      75      80
Asp Asn Pro Arg Thr Val Val Glu Asn Ser Ala His Glu Ile Asn Leu
85      90      95
Ser Leu Thr Asp Val Arg Gln Glu Gly Gln Thr Leu Ser Phe Val Val
100      105      110
Asn Arg Val Asn Val Tyr Glu Leu Lys Ser Trp Leu Arg Glu Ile Asn
115      120      125
Gln Thr Thr Gly Val Arg Leu Gln Lys Ile Asn Leu Thr Pro Val Asp
130      135      140
His Leu Ser Asp Val Lys Ala Gln Val Gln Leu Thr Trp Ala Lys Asn
145      150      155      160
Ala

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<210> 9241

<211> 907

<212> PRT

<213> Enterobacter cloacae

<400> 9241

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Ile Tyr Gln Glu Ile Lys Met Lys Phe Met Lys Pro Lys Tyr Leu Ala
1      5      10      15
Leu Phe Ile Ala Ala Ala Thr Ser Ser Ala Phe Ala Ala Pro Gly
20      25      30
Ala Pro Thr Ile Gly Tyr Gly Asn Asp Lys Phe Ala Leu Val Glu Val
35      40      45
Asp Gln Ala Ala Gln Asp Tyr Asn Asn Leu Val Lys Val His Asn Asp
50      55      60
Gly Val Asp Val Lys Val Glu Trp Asn Val Trp Ser Gly Asp Ala Pro
65      70      75      80
Thr Ser Ala Lys Val Leu Leu Asp Gly Gln Thr Val Trp Thr Gly Ala
85      90      95
Ala Gly Ala Thr Gly Ser Ala Thr Phe Lys Val Lys Lys Gly Gly Arg
100      105      110
Tyr Gln Glu Gln Val Glu Val Cys Asn Ala Ser Gly Cys Ala Lys Ser
115      120      125
Ala Ser Lys Leu Ile Ile Val Ala Asp Thr Asp Gly Ser His Leu Leu
130      135      140
Pro Leu Asn Thr Ser Leu Gln Glu Asn Asn Lys Ala Phe Ala Lys His
145      150      155      160
Thr Asp Lys Val Val Ala Ala Tyr Phe Pro Glu Trp Gly Val Tyr Asp
165      170      175
Arg Asn Phe Pro Val Asp Lys Ile Pro Ala Ala Asn Leu Asn His Ile
180      185      190
Leu Tyr Gly Phe Ile Pro Ile Cys Gly Gly Asp Gly Ile Asn Asp Gly
195      200      205
Leu Lys Thr Ile Glu Gly Gly Asn Ser Phe Arg Val Leu Gln Asn Asp
210      215      220
Cys Lys Gly Arg Pro Asp Phe Thr Val Ala Ile His Asp Pro Trp Ala

```

225					230					235					240	
Ala	Leu	Gln	Lys	Pro	Gln	Ala	Gly	Val	Ser	Asn	Trp	Asp	Asp	Pro	Tyr	
				245					250					255		
Lys	Gly	Asn	Phe	Gly	Gln	Leu	Met	Ala	Leu	Lys	Lys	Ala	His	Pro	Gly	
				260					265					270		
Leu	Lys	Val	Leu	Pro	Ser	Ile	Gly	Trp	Thr	Leu	Ser	Asp	Pro	Phe		
				275					280					285		
Phe	His	Met	Gly	Asp	Pro	Ala	Ile	Arg	Ala	Arg	Phe	Val	Ser	Ser	Val	
				290					295					300		
Lys	Asp	Phe	Leu	Gln	Thr	Trp	Lys	Phe	Phe	Asp	Gly	Val	Asp	Ile	Asp	
305					310					315					320	
Trp	Glu	Phe	Pro	Gly	Gly	Gly	Gly	Val	Thr	Glu	Asn	Leu	Gly	Asn	Pro	
				325					330					335		
Gln	Gln	Asp	Lys	Ala	Thr	Tyr	Thr	Ala	Leu	Met	His	Asp	Leu	Arg	Thr	
				340					345					350		
Met	Leu	Asn	Glu	Leu	Ser	Ala	Gln	Thr	Gly	Arg	Thr	Tyr	Glu	Leu	Thr	
				355					360					365		
Ser	Ala	Ile	Gly	Ala	Gly	Arg	Asp	Lys	Ile	Glu	Asp	Val	Asp	Tyr	Thr	
				370					375					380		
Thr	Ala	Gln	Gln	Tyr	Leu	Asp	His	Ile	Phe	Leu	Met	Ser	Tyr	Asp	Phe	
385					390					395					400	
Tyr	Gly	Gly	Trp	Ser	Asn	Thr	Val	Leu	Gly	His	Gln	Ala	Ala	Leu	Arg	
				405					410					415		
Ala	Pro	Ala	Trp	Arg	Pro	Asp	Thr	Asp	Tyr	Thr	Thr	Glu	Asn	Gly	Val	
				420					425					430		
Asn	Ala	Leu	Leu	Ala	Gln	Gly	Val	Gln	Pro	Gly	Lys	Ile	Val	Val	Gly	
				435					440					445		
Ala	Gly	Met	Tyr	Gly	Arg	Gly	Trp	Thr	Gly	Val	His	Gly	Tyr	Thr	Gly	
				450					455					460		
Asp	Asn	Pro	Phe	Thr	Gly	Thr	Ala	Thr	Gly	Met	Val	Lys	Gly	Thr	Trp	
465					470					475					480	
Glu	Pro	Gly	Val	Val	Asp	Tyr	Arg	Gln	Ile	Val	Asn	Glu	Tyr	Lys	Gly	
				485					490					495		
Lys	Pro	Gly	Trp	Glu	Tyr	Gly	Tyr	Asp	Thr	Thr	Ala	Glu	Ala	Pro	Tyr	
				500					505					510		
Val	Phe	Asn	Lys	Ser	Thr	Gly	Asp	Leu	Ile	Ser	Tyr	Glu	Asp	Ala	Arg	
				515					520					525		
Ser	Thr	Thr	Ala	Lys	Gly	Lys	Tyr	Val	Leu	Ala	Asn	Lys	Leu	Gly	Gly	
				530					535					540		
Leu	Phe	Ala	Trp	Ser	Ile	Asp	Ser	Asp	Thr	Gly	Asp	Ile	Leu	Asn	Ala	
545					550					555					560	
Met	Asn	Glu	Ser	Leu	Leu	Gly	Gly	Asp	Ser	Thr	Pro	Val	Asp	Pro	Val	
				565					570					575		
Val	Thr	Asn	His	Ala	Pro	Ile	Ala	Ser	Ser	Ala	Asp	Gln	Asn	Val	Ser	
				580					585					590		
Gly	Pro	Ala	Thr	Val	Thr	Leu	Asp	Gly	Ser	Ala	Ser	Ser	Asp	Pro	Asp	
				595					600					605		
Gly	Asp	Ala	Ile	Thr	Tyr	Lys	Trp	Thr	Gln	Val	Ser	Gly	Pro	Ser	Val	
				610					615					620		
Thr	Ile	Asn	Asn	Ser	Thr	Lys	Ala	Lys	Ala	Thr	Phe	Asn	Val	Ala	Ala	
625					630					635					640	
Ala	Thr	Thr	Asp	Gln	Thr	Met										

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<210> 9242
<211> 563
<212> PRT
<213> Enterobacter cloacae
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Arg 1	Lys	Lys	Trp	Pro 5	Asn	Cys	Gly	Gly	Cys 10	Met	Leu	Leu	Glu	Arg 15	Val
Glu	Ile	Val	Gly 20	Phe	Arg	Gly	Ile	Asn 25	Arg	Leu	Ser	Leu	Gln 30	Leu	Glu
Gln	Asn	Asn 35	Val	Leu	Ile	Gly	Glu 40	Asn	Ala	Trp	Gly	Lys 45	Ser	Ser	Leu
Leu	Asp 50	Ala	Leu	Thr	Leu	Leu 55	Leu	Ser	Pro	Glu	Glu 60	Asn	Leu	Tyr	His
Phe 65	Val	His	Asp	Asp	Phe 70	Trp	Phe	Pro	Pro	Gly 75	Asp	Val	Asn	Gly 80	Arg
Glu	Lys	His	Leu	His 85	Ile	Ile	Leu	Thr	Phe 90	Arg	Glu	Ser	Glu	Pro 95	Gly
Arg	His	Arg 100	Val	Arg	Arg	Phe	Arg	Pro 105	Met	Ser	Ala	Cys	Trp 110	Val	Pro
Cys	Glu	Asp 115	Gly	Phe	Gln	Arg	Ile 120	Phe	Tyr	Arg	Leu	Glu 125	Gly	Glu	Met
Ala	Gln	Asn 130	Asp	Gly	Val	Leu 135	Thr	Leu	Arg	Glu	Phe 140	Leu	Asp	Glu	Lys
Gly 145	Asn	Pro	Ile	Pro	Leu 150	Asp	Asn	Ile	Asp 155	Glu	Leu	Ala	Arg	His	Leu 160
Ile	Arg	Leu	Ser	Pro 165	Val	Leu	Arg	Leu	Arg 170	Asp	Ala	Arg	Phe	Met 175	Arg
Arg	Ile	Arg 180	Asn	Gly	Thr	Val	Pro	Asn 185	Met	Pro	Glu	Val	Glu 190	Val	Thr
Ala	Arg	Glu 195	Leu	Asp	Phe	Leu	Ala 200	Arg	Glu	Leu	Val	Ser 205	Arg	Pro	Gln
Asn	Leu 210	Thr	Asp	Gly	Gln	Ile 215	Arg	Gln	Gly	Leu	Ser 220	Ala	Met	Val	Gln
Leu 225	Leu	Glu	His	Tyr	Phe 230	Ser	Glu	Gln	Gly	Thr 235	Gly	Gln	Ala	Arg	His 240

Arg Leu Met Arg Arg Arg Ser His Asp Glu Gln Arg Ser Trp Arg Tyr
 245 250 255
 Leu Asp Ile Ile Asn Arg Met Ile Asp Arg Pro Gly Gly Arg Thr His
 260 265 270
 Arg Val Ile Leu Leu Gly Leu Phe Ser Thr Leu Leu Gln Ala Lys Gly
 275 280 285
 Thr Val Arg Leu Asp Arg Asp Ala Arg Pro Leu Leu Leu Val Glu Asp
 290 295 300
 Pro Glu Thr Arg Leu His Pro Ile Met Leu Ser Val Ala Trp His Leu
 305 310 315 320
 Leu Asn Leu Leu Pro Leu Gln Arg Val Thr Thr Thr Asn Ser Gly Glu
 325 330 335
 Leu Leu Ser Leu Thr Pro Val Glu Tyr Val Cys Arg Leu Val Arg Glu
 340 345 350
 Ser Ser Arg Val Thr Ala Tyr Arg Leu Gly Pro Gly Gly Leu Asn Ala
 355 360 365
 Glu Asp Gly Arg Arg Ile Ala Phe His Ile Arg Phe Asn Arg Ala Ser
 370 375 380
 Ser Leu Phe Ala Arg Cys Trp Leu Leu Val Glu Gly Glu Thr Glu Thr
 385 390 395 400
 Trp Val Ile Asn Glu Leu Ala Arg Gln Cys Gly His His Phe Asp Ala
 405 410 415
 Glu Gly Ile Lys Val Ile Glu Phe Ala Gln Ser Gly Leu Lys Pro Leu
 420 425 430
 Ile Lys Phe Ala Arg Arg Met Gly Ile Glu Trp His Val Leu Val Asp
 435 440 445
 Gly Asp Glu Ala Gly Lys Lys Tyr Ala Ala Thr Val Arg Ser Leu Leu
 450 455 460
 Asn Asn Asp Arg Glu Glu Glu Arg Glu His Leu Thr Ala Leu Pro Ala
 465 470 475 480
 Met Asp Met Glu His Phe Met Tyr Arg Gln Gly Phe Asp Asp Val Phe
 485 490 495
 His Arg Val Ala Met Ile Pro Val Asp Val Pro Met Asn Met Arg Arg
 500 505 510
 Val Ile Ala Lys Ala Ile His Arg Ser Ser Lys Pro Asp Leu Ala Ile
 515 520 525
 Glu Val Ala Thr Glu Ala Gly Arg Arg Gly Val Glu Ser Val Pro Thr
 530 535 540
 Leu Leu Arg Lys Met Phe Ser Arg Val Leu Trp Leu Ala Arg Gly Arg
 545 550 555 560
 Ala Asp

<210> 9243

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 9243

Arg Val Gln Ala Leu Asn Ser Asp Val His Arg Val Gln Ala Gly Val
 1 5 10 15
 Gly Lys Glu Tyr Arg Glu Thr Ile Ile Met Val Asp Ser Lys Lys Arg
 20 25 30
 Pro Gly Lys Asp Leu Asp Arg Ile Asp Arg Asn Ile Leu Asn Glu Leu
 35 40 45
 Gln Lys Asp Gly Arg Ile Ser Asn Leu Glu Leu Ser Tyr Leu His Ser
 50 55 60
 Arg Gly Asn Thr Arg Trp
 65 70

<210> 9244

<211> 303
 <212> PRT
 <213> Enterobacter cloacae

<400> 9244

Tyr	Arg	Leu	Arg	Asn	Gly	Arg	Glu	Arg	Cys	Gln	His	Ala	Asp	Gly	Glu
1				5					10					15	
Arg	Lys	Arg	Tyr	Gly	Gly	Glu	Asn	Pro	Ser	Met	Lys	Arg	Ser	Leu	Ser
			20					25					30		
Thr	Leu	Leu	Leu	Ala	Ile	Leu	Leu	Ala	Gly	Cys	Ala	Ser	Glu	Glu	Gly
		35					40					45			
Ile	Val	Asp	Lys	Gly	Ala	Tyr	Glu	Leu	Asp	Thr	Arg	His	Gln	Ala	Gln
	50					55					60				
Ala	Ala	Tyr	Pro	Arg	Ile	Lys	Val	Leu	Val	Ile	His	Tyr	Thr	Ala	Asp
65					70					75					80
Asp	Phe	Asp	Thr	Ser	Leu	Ala	Thr	Leu	Thr	Asp	Lys	Asn	Val	Ser	Ser
				85					90					95	
His	Tyr	Leu	Ile	Pro	Ala	Lys	Pro	Pro	Ala	Pro	Gln	Gly	Lys	Pro	Arg
			100					105					110		
Ile	Trp	Gln	Leu	Val	Pro	Glu	Ser	Glu	Leu	Ala	Trp	His	Ala	Gly	Ile
		115						120					125		
Ser	Phe	Trp	Arg	Gly	Thr	Asn	Arg	Ile	Asn	Asp	Thr	Ser	Val	Gly	Ile
		130				135						140			
Glu	Leu	Glu	Asn	Arg	Gly	Trp	Arg	Gln	Thr	Asp	Gly	Val	Lys	Thr	Phe
145					150					155					160
Thr	Pro	Phe	Glu	Pro	Gly	Gln	Ile	Ala	Ala	Leu	Ile	Pro	Leu	Ala	Arg
				165					170					175	
Asp	Ile	Ile	Ala	Arg	Tyr	Asp	Ile	Lys	Pro	Gln	Asn	Val	Val	Ala	His
			180					185					190		
Ser	Asp	Ile	Ala	Pro	Gln	Arg	Lys	Asp	Asp	Pro	Gly	Pro	Met	Phe	Pro
		195					200					205			
Trp	Arg	Glu	Leu	Ala	Gln	Gln	Gly	Ile	Gly	Ala	Trp	Pro	Asp	Pro	Ala
		210				215					220				
Arg	Val	Asn	Phe	Tyr	Ile	Asn	Gly	Arg	Pro	His	Tyr	Gln	Gln	Val	Asp
225					230					235					240
Thr	Ala	Ala	Leu	Leu	Asp	Leu	Leu	Ala	Arg	Tyr	Gly	Tyr	Glu	Val	Pro
				245					250					255	
Glu	Asn	Ser	Thr	Pro	Ala	Gln	Gln	Lys	Arg	Ile	Ile	Ile	Val	Phe	Gln
			260					265					270		
Met	His	Phe	Arg	Pro	Gln	Leu	Trp	Asn	Gly	Val	Ala	Asp	Val	Glu	Thr
		275					280					285			
Met	Ala	Ile	Ala	Glu	Ala	Leu	Leu	Glu	Lys	Tyr	Gly	Gln	Gly		
	290					295					300				

<210> 9245
 <211> 259
 <212> PRT
 <213> Enterobacter cloacae

<400> 9245

Lys	Met	Arg	Phe	Ser	Phe	Leu	Ser	Arg	Trp	Ile	Thr	Pro	Cys	Ile	Met
1				5					10					15	
Phe	Val	Leu	Leu	Ile	Phe	Ser	Gly	Gln	Gln	Gly	Tyr	Leu	Thr	Leu	Lys
			20					25					30		
Asp	Tyr	Lys	Lys	Val	Thr	Asn	Lys	Leu	Ala	Lys	Ala	Asp	Leu	Gln	Pro
		35					40					45			
Pro	Lys	Lys	Thr	Arg	Glu	Asp	Lys	Pro	Phe	Thr	Leu	Phe	Thr	Ala	Ala
	50					55					60				
Val	Arg	Gln	Glu	Asn	Leu	Ala	Asp	Ala	Ala	Lys	Ala	Pro	Leu	Ala	Ala
65					70					75					80
Glu	Ile	Glu	Gly	Ile	Val	Arg	Ser	Asp	Asp	Ala	Trp	Leu	Ser	Phe	Ala

				85				90					95				
Val	Ile	Lys	Thr	Pro	Gly	Gly	Gln	Arg	Ser	Tyr	Arg	Glu	Gly	Glu	Pro		
			100					105					110				
Leu	Ala	Gly	Phe	Asn	Asp	Ala	Phe	Ile	Gln	Glu	Ile	Asn	Lys	Asp	Asn		
		115					120					125					
Val	Val	Val	Asn	Tyr	Glu	Gly	Ala	Thr	Gln	Val	Leu	Ala	Leu	Asn	Lys		
	130					135					140						
Pro	Asp	Tyr	Phe	Lys	Gly	Gly	Val	Asp	Ser	Gly	Pro	Val	Thr	Gln	Ser		
145					150					155					160		
Thr	Lys	Asp	Ala	Gly	Ala	Glu	Ser	Leu	His	Leu	Asp	Asp	Tyr	Leu	Val		
			165					170						175			
Leu	Lys	Pro	Ile	Glu	Lys	Gly	Arg	Leu	Glu	Gly	Tyr	Arg	Ile	Asn			
		180					185					190					
Pro	Arg	Asn	Ala	Ser	Ala	Phe	Tyr	Ser	Gln	Ser	Gly	Leu	Glu	Lys	Gly		
		195					200					205					
Asp	Val	Ala	Val	Gln	Val	Asn	Ser	Val	Asp	Met	Thr	Asp	Glu	Ala	Lys		
	210					215					220						
Ala	Lys	Ser	Ile	Ile	Ala	Asn	Trp	Ser	Lys	Met	Lys	Glu	Ala	Asp	Val		
225					230					235					240		
Val	Val	Arg	Arg	His	Ala	His	Leu	Glu	Asn	Ile	Arg	Val	Asn	Val	Leu		
				245					250					255			

Asn Asn

<210> 9246

<211> 500

<212> PRT

<213> Enterobacter cloacae

<400> 9246

Arg	Val	Arg	Arg	Arg	Asp	Thr	Val	Asp	Glu	Leu	Ser	Lys	Ser	Leu	Cys		
1				5				10						15			
Ser	Ser	Asn	Tyr	Ala	Lys	Asp	Asn	Gly	Val	Leu	Leu	Tyr	Asn	Asn	Asp		
		20					25					30					
Val	Tyr	Ile	Arg	Glu	Asp	Thr	Pro	Ala	Leu	Ala	Leu	Leu	Glu	Val	Arg		
	35					40					45						
Arg	Val	Leu	Gly	Arg	Ala	Phe	Val	Pro	Ile	Thr	Leu	Ala	Pro	Glu	Ala		
	50				55					60							
Phe	Asp	Glu	Met	Leu	Ala	Lys	Ile	Trp	Gln	Gln	Ser	Ser	Gly	Val	Ser		
65				70				75						80			
Gln	Gln	Leu	Val	Asp	Asp	Met	Asp	Ala	Asp	Ile	Asp	Leu	Met	Ala	Leu		
			85				90						95				
Thr	Glu	Glu	Ile	Pro	Asp	Asn	Glu	Asp	Leu	Leu	Asp	Asn	Asp	Glu	Asn		
		100					105					110					
Ser	Pro	Val	Ile	Arg	Leu	Ile	Asn	Ala	Ile	Leu	Gly	Glu	Ala	Val	Lys		
	115					120					125						
Asp	Gly	Ala	Ser	Asp	Ile	His	Ile	Glu	Thr	Phe	Glu	Arg	Thr	Leu	Ser		
	130				135					140							
Ile	Arg	Phe	Arg	Val	Asp	Gly	Val	Leu	Arg	Pro	Val	Leu	Gln	Pro	Ala		
145				150				155						160			
Arg	Lys	Leu	Ala	Pro	Leu	Leu	Val	Ser	Arg	Ile	Lys	Val	Met	Ser	Lys		
			165				170							175			
Leu	Asp	Ile	Ala	Glu	Lys	Arg	Leu	Pro	Gln	Asp	Gly	Arg	Ile	Ser	Leu		
		180					185					190					
Arg	Ile	Gly	Arg	Lys	Ala	Ile	Asp	Val	Arg	Val	Ser	Thr	Ile	Pro	Ser		
	195					200					205						
Gln	Tyr	Gly	Glu	Arg	Val	Val	Met	Arg	Leu	Leu	Asp	Lys	Ser	Asn	Leu		
	210				215						220						
Lys	Pro	Asp	Ile	Asn	Lys	Leu	Gly	Leu	Ile	Asp	Glu	Glu	Leu	Glu	Lys		
225				230				235						240			
Leu	Lys	Gly	Leu	Ile	Asp	Arg	Pro	His	Gly	Ile	Ile	Leu	Val	Thr	Gly		

[illegible]

Figure 6

Figure 6

Figure 6

Figure 1

				165					170					175			
Ser	Gly	Leu	Ser	Pro	Gly	Thr	Ala	Glu	Ala	Val	Tyr	Phe	Gln	Leu	Val		
			180					185					190				
Asp	Tyr	Leu	Asp	Gly	Asp	Ser	Thr	Thr	Ala	Lys	Glu	Gly	Ala	Glu	Ser		
		195					200					205					
Asp	Ala	Trp	Ala	Gly	Val	Val	Pro	Ala	Arg	Gln	Pro	Ala	Asn	Gln	Met		
	210					215					220						
Met	Arg	Ser	Ile	Ala	Glu	Ile	Lys	Leu	Leu	Pro	Ala	Phe	Pro	Val	Thr		
225					230					235				240			
Ala	Tyr	Pro	Lys	Val	Ser	Lys	Leu	Leu	Cys	Ala	Leu	Pro	Asp	Ala	Ala		
			245						250					255			
Ser	Lys	Val	Asp	Val	Asn	Thr	Leu	Gln	Pro	Glu	Gln	Ala	Ala	Val	Leu		
			260					265						270			
Ala	Ala	Met	Phe	Pro	Gly	Lys	Leu	Thr	Gln	Asp	Asp	Ala	Val	Arg	Leu		
		275					280					285					
Leu	Asp	Ser	Arg	Pro	Glu	Ser	Gly	Trp	Glu	Asn	Met	Glu	Ala	Phe	Ser		
	290					295					300						
Lys	Ala	Leu	Glu	Gln	Ala	Phe	Pro	Gln	Leu	Lys	Asp	Asp	Leu	Gln	Gln		
305				310						315					320		
Val	Val	Asp	Gln	Phe	Ser	Ile	Asn	Ser	Arg	Tyr	Phe	Arg	Val	Asn	Tyr		
			325						330					335			
Thr	Gly	Asn	Thr	Asp	Glu	Leu	Thr	Leu	Arg	Val	Val	Ser	Gln	Leu	Gln		
			340					345						350			
Val	Asn	Asn	Glu	Ala	Gly	Glu	Ile	Val	Thr	Trp	Gln	Arg	Arg	Tyr	Arg		
		355					360					365					
Met	Ile	Glu															
	370																

<210> 9248

<211> 380

<212> PRT

<213> Enterobacter cloacae

<400> 9248

Asn	Val	Met	Lys	Gln	Val	Leu	Phe	Val	Arg	Pro	Asp	Ser	Arg	Glu	Gly		
1				5				10						15			
Gly	Lys	Ile	Met	Trp	Cys	Glu	Ser	Gly	Ser	Glu	Arg	Val	Glu	Val	Val		
			20					25					30				
Asp	Ser	Leu	Glu	Met	Leu	Ser	Glu	His	Pro	Leu	Ala	Thr	Arg	Val	Cys		
		35					40					45					
Leu	Leu	Leu	Pro	Ala	Ser	Asp	Met	Ile	Phe	Arg	His	Phe	Arg	Leu	Pro		
		50				55					60						
Lys	Lys	Val	Ala	Ser	Gln	Gly	Met	Ala	Phe	Ser	Trp	Met	Ala	Glu	Glu		
65					70					75				80			
Thr	Leu	Ile	Gly	Asp	Val	Asp	Asn	Leu	His	Trp	Thr	Val	Leu	His	Lys		
			85						90					95			
Lys	Gly	Ala	Asp	Val	Asp	Ala	Val	Ala	Ile	Asp	Ala	Asp	Arg	Leu	Arg		
			100					105					110				
Ala	Thr	Leu	Thr	Arg	Cys	Gln	Glu	Ala	Gly	Leu	Asn	Val	Ile	Gln	Ala		
		115					120					125					
Leu	Pro	Asp	Ala	Trp	Leu	Leu	Pro	Val	Thr	Ala	Gly	Gly	Ser	Thr	Leu		
		130				135					140						
Val	Ala	Gln	Asp	Asp	Gly	Tyr	Trp	Leu	Arg	Leu	Ser	Pro	His	Val	Ala		
145					150					155				160			
Gly	Glu	Met	Glu	Ala	Thr	Leu	Leu	Pro	Leu	Leu	Met	Gln	Lys	Ala	Gly		
			165						170					175			
Val	Gly	Glu	Val	Trp	Cys	Tyr	Gly	Asp	Ala	Pro	Ala	Lys	Val	His	Val		
			180					185					190				
Asp	Val	Gln	His	Ala	Trp	Gln	His	Pro	Leu	Ala	Leu	Ile	Gln	Pro	Gln		
		195				200						205					
Trp	Gln	Thr	Cys	Arg	Val	Asn	Leu	Leu	His	Gly	Glu	Phe	Ser	Leu	Lys		

210	215	220
Ala Gly His Gly Arg	Ala Ala Lys Arg Met Lys	Ala Ala Met Val Ala
225	230	235
Ala Gly Val Leu Ser	Val Gly Leu Leu Leu Gly	Pro Arg Ile Ala Met
	245	250
Ala Trp Met Leu Val	Gln Gln Glu Asn Arg	Val Gln Gln Glu Ile Val
	260	265
Gln Val Tyr Gln His	His Phe Pro Ser Met	Arg Gln Gln Thr Asn Ile
	275	280
Lys Tyr His Phe Gly	Gln Ser Leu Lys Lys	Gln Ser Lys Gly Phe Phe
	290	295
Leu Gln Leu Glu Glu	Leu Glu Lys Ala Arg	Gln Ser Val Pro Ala Met
305	310	315
Glu Ile Asp Leu Leu	Glu Tyr Asp Ala Gln	Gln Asn Thr Leu Thr Leu
	325	330
Ser Val Ser Ala Gln	Asn Gln Pro Ala Leu	Gln Ala Phe Val Asn Gln
	340	345
Thr Ser Glu Asn Phe	Asp Phe Thr Leu Gln	Pro Val Ser Thr Thr Glu
	355	360
Pro Tyr Thr Ala Met	Ile Ala Gly Lys His	Lys
370	375	380

<210> 9249

<211> 615

<212> PRT

<213> Enterobacter cloacae

<400> 9249

Phe Glu Thr Asn Arg	Lys Thr Glu Met	Asn Lys Arg Thr	Leu Leu Ser
1	5	10	15
Val Leu Ile Ala Gly	Ala Cys Val Ala	Pro Phe Met Ala	Gln Ala Ala
	20	25	30
Asn Leu Lys Glu Thr	Ser Ser Glu Pro	Tyr Thr Ile Lys	Ala Ser Asp
	35	40	45
Leu Ala Lys Lys Glu	Lys Glu Leu Thr	Asp Phe Pro Leu	Met Ala Ser
	50	55	60
Val Lys Glu Thr Ile	Gln Thr Leu Asp	Asn Ala Gln Val	Glu Leu Ile
65	70	75	80
Glu Pro Gly Arg Ala	Asn Pro Asp Asn	Val Lys Arg Val	Glu Gly
	85	90	95
Ile Val Lys Ala Ser	Asp Trp Glu Tyr	Leu Phe Pro Leu	Arg Ala Gln
	100	105	110
Ala Tyr Thr Tyr Ser	Asn Phe Leu Lys	Ala Val Gly Lys	Phe Pro Ala
	115	120	125
Leu Cys Lys Thr Tyr	Asn Asp Gly Arg	Asp Ser Asp Ala	Ile Cys Arg
	130	135	140
Lys Glu Leu Ala Thr	Met Phe Ala His	Phe Ala Gln Glu	Thr Gly Gly
145	150	155	160
His Glu Ser Trp Arg	Pro Glu Ala Glu	Trp Arg Gln Ala	Leu Val His
	165	170	175
Val Arg Glu Met Gly	Trp Ser Glu Gly	Gln Lys Gly Gly	Tyr Asn Gly
	180	185	190
Glu Cys Asn Pro Asp	Val Trp Gln Gly	Gln Thr Trp Pro	Cys Gly Lys
	195	200	205
Asp Lys Asp Gly Asp	Phe Leu Ser Tyr	Phe Gly Arg Gly	Ala Lys Gln
	210	215	220
Leu Ser Tyr Asn Tyr	Asn Tyr Gly Pro	Phe Ser Glu Ala	Met Tyr Gly
225	230	235	240
Asp Val Arg Thr Leu	Leu Asp Lys Pro	Glu Leu Val Ala	Asp Thr Trp
	245	250	255
Leu Asn Leu Ala Ser	Ala Ile Phe Phe	Phe Ala Tyr Pro	Gln Pro Pro

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<210> 9250
<211> 660
<212> PRT
<213> Enterobacter cloacae
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Arg	Ser	Gly	His	Gln	Arg	Asn	Pro	Ala	Arg	Ser	Arg	Ala	Met	Thr	Ala
1				5					10					15	
Leu	Leu	Glu	Leu	Asn	Asp	Ile	Arg	Arg	Ser	Tyr	Pro	Ser	Gly	Asp	Gly
			20					25					30		
Pro	Val	Glu	Val	Leu	Lys	Gly	Ile	Ser	Leu	Arg	Val	Glu	Ala	Gly	Glu
		35					40					45			
Met	Val	Ala	Ile	Val	Gly	Ala	Ser	Gly	Ser	Gly	Lys	Ser	Thr	Leu	Met
	50					55					60				
Asn	Ile	Leu	Gly	Cys	Leu	Asp	Lys	Pro	Thr	Ser	Gly	Thr	Tyr	Arg	Val

65					70					75				80	
Ala	Gly	Thr	Asp	Val	Ser	Thr	Leu	Asp	Gly	Asp	Ala	Leu	Ala	Lys	Leu
				85					90					95	
Arg	Arg	Glu	His	Phe	Gly	Phe	Ile	Phe	Gln	Arg	Tyr	His	Leu	Leu	Ser
			100					105					110		
His	Leu	Ser	Ala	Ala	Gln	Asn	Val	Glu	Val	Pro	Ala	Val	Tyr	Ala	Gly
		115					120					125			
Val	Glu	Arg	Lys	Lys	Arg	Leu	Glu	Arg	Ala	Lys	Ala	Leu	Leu	Thr	Arg
	130					135					140				
Leu	Gly	Leu	Ala	Glu	Arg	Val	Asp	Tyr	Gln	Pro	Ser	Gln	Leu	Ser	Gly
145				150					155						160
Gly	Gln	Gln	Gln	Arg	Val	Ser	Ile	Ala	Arg	Ala	Leu	Met	Asn	Gly	Gly
				165					170					175	
Gln	Val	Ile	Leu	Ala	Asp	Glu	Pro	Thr	Gly	Ala	Leu	Asp	Ser	His	Ser
			180					185					190		
Gly	Glu	Glu	Val	Met	Ala	Ile	Leu	His	Gln	Leu	Arg	Asp	Gln	Gly	His
	195						200					205			
Thr	Val	Ile	Ile	Val	Thr	His	Asp	Pro	Gln	Val	Ala	Ala	Gln	Ala	Glu
	210					215					220				
Arg	Ile	Ile	Glu	Ile	His	Asp	Gly	Glu	Leu	Val	Ser	Asn	Pro	Pro	Pro
225					230				235						240
Arg	Gln	Ser	Arg	Ala	Ala	Ala	Lys	Glu	Ala	Leu	Pro	Val	Ser	Thr	
				245				250					255		
Gly	Trp	Gly	Gln	Phe	Ser	Ser	Gly	Phe	Arg	Glu	Ala	Leu	Thr	Met	Ala
			260				265						270		
Trp	Leu	Ala	Met	Ala	Ala	Asn	Lys	Met	Arg	Thr	Leu	Leu	Thr	Met	Leu
	275						280					285			
Gly	Ile	Ile	Ile	Gly	Ile	Ala	Ser	Val	Val	Ser	Ile	Val	Val	Val	Gly
	290					295				300					
Asp	Ala	Ala	Lys	Gln	Leu	Val	Leu	Ala	Asp	Ile	Arg	Ala	Ile	Gly	Thr
305					310				315						320
Asn	Thr	Ile	Asp	Val	Tyr	Pro	Gly	Lys	Asp	Phe	Gly	Asp	Asp	Glu	Pro
			325					330						335	
Gln	Tyr	Gln	Gln	Ala	Leu	Lys	Tyr	Asp	Asp	Leu	Ala	Ala	Ile	Gln	Lys
			340					345					350		
Gln	Pro	Trp	Val	Asn	Ser	Ala	Thr	Pro	Ala	Val	Ser	Gln	Asn	Leu	Arg
	355						360					365			
Leu	Arg	Tyr	Gly	Asn	Ile	Asp	Val	Ala	Ala	Ser	Ala	Asn	Gly	Val	Ser
	370					375					380				
Gly	Asp	Tyr	Phe	Asn	Val	Tyr	Gly	Met	Thr	Phe	Ser	Glu	Gly	Ala	Thr
385					390				395						400
Phe	Asn	Ala	Glu	Gln	Leu	Ala	Gly	Arg	Ala	Gln	Val	Val	Val	Leu	Asp
			405					410						415	
Ala	Asn	Ser	Arg	Arg	Gln	Leu	Phe	Pro	Asn	Lys	Thr	Arg	Val	Val	Gly
			420					425					430		
Glu	Val	Ile	Leu	Val	Gly	Asn	Met	Pro	Ala	Thr	Val	Ile	Gly	Val	Ala
	435						440					445			
Glu	Glu	Lys	Gln	Ser	Met	Phe	Gly	Ser	Ser	Lys	Ile	Leu	Arg	Val	Trp
	450					455					460				
Leu	Pro	Tyr	Ser	Thr	Ile	Ser	Gly	Arg	Ile	Met	Gly	Gln	Ser	Trp	Leu
465					470					475					480
Asn	Ser	Ile	Thr	Val	Arg	Val	Lys	Glu	Gly	Tyr	Asp	Ser	Ala	Leu	Ala
			485					490						495	
Glu	Gln	Gln	Leu	Glu	Arg	Leu	Leu	Thr	Leu	Arg	His	Gly	Lys	Lys	Asp
			500					505					510		
Phe	Phe	Thr	Trp	Asn	Met	Asp	Gly	Leu	Leu	Lys	Thr	Ala	Glu	Lys	Thr
	515						520					525			
Thr	Arg	Thr	Leu	Gln	Leu	Phe	Leu	Thr	Leu	Val	Ala	Val	Ile	Ser	Leu
	530					535					540				
Val	Val	Gly	Gly	Ile	Gly	Val	Met	Asn	Ile	Met	Leu	Val	Ser	Val	Thr
545					550					555					560

Glu Arg Thr Arg Glu Ile Gly Ile Arg Met Ala Val Gly Ala Arg Ala
 565 570 575
 Ser Asp Val Leu Gln Gln Phe Leu Ile Glu Ala Val Leu Val Cys Leu
 580 585 590
 Val Gly Gly Ala Met Gly Ile Ala Leu Ser Met Met Ile Ala Phe Ala
 595 600 605
 Leu Gln Leu Phe Leu Pro Gly Trp Glu Ile Gly Phe Ser Pro Met Ala
 610 615 620
 Ile Leu Thr Ala Phe Leu Cys Ser Thr Phe Thr Gly Ile Leu Phe Gly
 625 630 635 640
 Trp Leu Pro Ala Arg Asn Ala Ala Arg Leu Asp Pro Val Asp Ala Leu
 645 650 655
 Ala Arg Glu
 660

<210> 9251

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 9251

Ile Arg Arg Glu Ser Met Gln Phe Ser Thr Thr Pro Thr Leu Glu Gly
 1 5 10 15
 Gln Pro Ile Thr Glu Tyr Cys Gly Val Val Thr Gly Glu Ala Ile Leu
 20 25 30
 Gly Ala Asn Ile Phe Arg Asp Phe Phe Ala Gly Ile Arg Asp Ile Val
 35 40 45
 Gly Gly Arg Ser Gly Ala Tyr Glu Lys Glu Leu Arg Lys Ala Arg Asp
 50 55 60
 Ile Ala Phe Lys Glu Leu Gly Glu Gln Ala Lys Ala Leu Gly Ala Asp
 65 70 75 80
 Ala Val Val Gly Ile Asp Ile Asp Tyr Glu Thr Val Gly Lys Asp Ala
 85 90 95
 Ser Met Leu Met Val Ser Val Ser Gly Thr Ala Val Lys Thr Arg Arg
 100 105 110

<210> 9252

<211> 648

<212> PRT

<213> Enterobacter cloacae

<400> 9252

Thr Ile Asn Lys Cys Ala Asp Met Lys Lys Phe Pro Trp Ala Cys Val
 1 5 10 15
 Ala Leu Thr Ala Leu Ser Leu Tyr Ser Ser Ser Leu Leu Ala Ala Asn
 20 25 30
 Phe Ser Ala Ser Phe Lys Asn Thr Asp Ile Arg Glu Phe Ile Asp Thr
 35 40 45
 Val Gly Arg Asn Leu Asn Lys Thr Ile Leu Val Asp Pro Ser Val Gln
 50 55 60
 Gly Thr Val Ser Val Arg Thr Tyr Asn Val Leu Thr Glu Asp Glu Tyr
 65 70 75 80
 Tyr Gln Phe Phe Leu Ser Val Leu Asp Leu Tyr Gly Leu Ser Val Ile
 85 90 95
 Pro Leu Asp Asn Gly Met Val Lys Val Val Arg Ser Ser Val Ala Arg
 100 105 110
 Thr Ala Gly Ala Pro Leu Ala Asp Ser Lys Asn Pro Gly Lys Gly Asp
 115 120 125
 Glu Ile Ile Thr Arg Val Val Arg Met Glu Asn Val Pro Val Arg Glu

130	135	140
Leu Ala Pro Leu Leu Arg Gln Leu Asn Asp Ala Thr Gly Ile Gly Asn		
145	150	155
Val Val His Phe Glu Pro Ser Asn Val Leu Leu Thr Gly Lys Ala		
	165	170
Ser Val Val Asn Arg Leu Val Asp Leu Val Gln Arg Val Asp Lys Asp		
	180	185
Gly Ile Gln Arg Arg Glu Ile Ile Pro Leu Arg Phe Ala Ser Ala Lys		
	195	200
Glu Leu Ser Asp Met Leu Asn Asn Leu Asn Asn Glu Glu Gln Lys Gly		
	210	215
Gln Asn Ala Pro Gln Leu Ala Thr Lys Val Val Ala Asp Asp Glu Thr		
225	230	235
Asn Ser Leu Val Ile Ser Gly Ser Glu Asp Ala Arg Ala Arg Thr Arg		
	245	250
Ser Leu Ile His Gln Leu Asp Arg Glu Gln Asn Asn Glu Gly Asn Thr		
	260	265
Arg Val Phe Tyr Leu Lys Tyr Ala Ser Ala Thr Lys Val Val Pro Val		
	275	280
Leu Thr Gly Ile Gly Glu Gln Leu Lys Asp Lys Pro Gly Ala Ala Lys		
	290	295
Ala Lys Thr Ala Ser Ala Ser Thr Asp Leu Asn Ile Thr Ala Asp Glu		
305	310	315
Ser Thr Asn Ser Leu Val Ile Thr Ala Gln Pro Asn Val Met Asn Ser		
	325	330
Leu Glu Lys Val Ile Asp Lys Leu Asp Ile Arg Arg Pro Gln Val Leu		
	340	345
Val Glu Ala Ile Ile Ala Glu Val Gln Asp Gly Asn Gly Leu Asp Leu		
	355	360
Gly Val Gln Trp Thr Ser Lys His Gly Gly Val Gln Phe Gly Ser Thr		
	370	375
Gly Leu Pro Ile Ser Gln Ile Lys Asn Gly Thr Met Lys Gly Ala Ser		
385	390	395
Phe Thr Gly Leu Ala Thr Gly Phe Phe Asn Gly Asp Phe Gly Ala Leu		
	405	410
Val Thr Ala Leu Ser Thr Asn Gly Lys Asn Asp Ile Leu Ser Thr Pro		
	420	425
Ser Val Val Thr Leu Asp Asn Lys Glu Ala Ser Phe Asn Val Gly Gln		
	435	440
Asp Val Pro Val Leu Ser Gly Ser Gln Thr Thr Ser Gly Asp Asn Val		
	450	455
Phe Asn Ser Val Glu Arg Lys Thr Val Gly Thr Lys Leu Lys Ile Val		
465	470	475
Pro Gln Ile Asn Asp Gly Asp Met Ile His Leu Lys Ile Glu Gln Glu		
	485	490
Val Ser Ser Val Asp Asn Ser Ala Thr Glu Asp Ser Ser Leu Gly Pro		
	500	505
Thr Phe Asn Thr Arg Thr Ile Asn Asn Glu Val Met Val His Ser Gly		
	515	520
Gln Thr Val Val Leu Gly Gly Leu Met Glu Asn Val Thr Lys Gln Ser		
	530	535
Val Ser Lys Val Pro Leu Leu Gly Asp Ile Pro Leu Val Gly Gln Leu		
545	550	555
Phe Arg Tyr Thr Ser Gln Asp Thr Ser Lys Arg Asn Leu Met Val Phe		
	565	570
Ile His Thr Thr Val Leu Arg Asp Asp Asn Tyr Ser Ala Ala Ser		
	580	585
Lys Glu Lys Tyr Asp Gln Ile Arg Val Arg Gln Met Gln Arg Val Glu		
	595	600
Glu Lys Lys Leu Gly Ile Val Glu Pro Ser Asp Asn Ala Val Leu Pro		
	610	615
		620

Ala Phe Pro Ser Ala Ser Pro His Val Ala Pro Val Lys Thr Ser Ala
 625 630 635 640
 Ala Arg Asn Pro Phe Lys Glu
 645

<210> 9253
 <211> 166
 <212> PRT
 <213> Enterobacter cloacae

<400> 9253
 Glu Arg Glu Ile Met Lys Asn Gln Arg Gly Phe Thr Leu Leu Glu Ile
 1 5 10 15
 Ile Leu Ala Leu Val Ile Phe Ala Ser Cys Ala Met Met Val Val Ser
 20 25 30
 Thr Ile Pro Ser Arg Ser Gly Ala Asp Ile Phe Gly Gln Gln Leu Lys
 35 40 45
 Ala Leu Val Asp Tyr Gly Ser Asp Arg Ala Val Met Asp Gly Asn Ile
 50 55 60
 Val Gly Leu Val Ile Ala Thr Asp Lys Tyr Gln Leu Val Thr Ile Ala
 65 70 75 80
 Asp Glu Asn Gly Glu Arg His Trp Val Pro Leu Ser Ala Gly Arg Ile
 85 90 95
 Ser Thr Lys Gly Asp Phe Pro Glu Glu Met His Val Ser Leu Ser Pro
 100 105 110
 Gln Arg Leu Ala Ala Thr Val Thr Ser Glu Pro Gln Val Ile Phe Leu
 115 120 125
 Pro Asp Gly Glu Ile Ser Arg Phe Thr Leu Thr Leu Gln Ser Tyr Asp
 130 135 140
 Lys Gln His His Phe Arg Val Val Ser Gln Gly Ala Ala Pro Val Ser
 145 150 155 160
 Val Glu Asn Asp Gly
 165

<210> 9254
 <211> 236
 <212> PRT
 <213> Enterobacter cloacae

<400> 9254
 Glu Pro Ala Gly Tyr Phe Pro Ala Tyr His Ser Ala Gly Arg Glu Gln
 1 5 10 15
 Val Lys Lys Met Arg Arg Gln Arg Gly Phe Thr Leu Leu Glu Ile Met
 20 25 30
 Ile Ala Leu Thr Ile Phe Ala Val Ile Ser Thr Leu Ala Trp Gln Ile
 35 40 45
 Leu Asp Gly Ala Met Arg Thr Ser Ser Ala Thr Asp Ala Ser Ala Ala
 50 55 60
 Lys Leu Asn Gln Leu Gln Arg Ala Trp Ser Leu Met Glu Arg Asp Phe
 65 70 75 80
 Phe Gln Leu Gln Ala Arg Ala Pro Arg Asn Glu Pro Glu Leu Phe Arg
 85 90 95
 Gln Ala Gly Asp Ala Leu Glu Leu Thr Thr Leu Asn Gly Val Ser Gly
 100 105 110
 Thr Val Gln Leu Glu Arg Glu Arg Trp Arg Leu Glu Glu Gly Arg Leu
 115 120 125
 Tyr Arg Asp Val Trp Pro Val Ile Asp Gly Pro Ala Glu Val Lys Pro
 130 135 140
 Asp Glu Val Pro Ile Val Ser Gly Val Lys Ser Leu Gln Trp Arg Phe
 145 150 155 160
 Tyr Arg Gln Gly Trp Leu Lys Ser Trp Ser Asp Ala Ala His Leu Pro

				165					170					175			
Asp	Gly	Val	Glu	Val	Thr	Leu	Thr	Met	Glu	Asn	Gly	Asp	Thr	Trp	Arg		
			180					185					190				
Trp	Val	Phe	Thr	Thr	Pro	Gly	Asp	Met	Pro	Glu	Val	Ala	Ala	Ala	Ala		
		195					200					205					
Ala	Pro	Glu	Lys	Ala	Ala	Asp	Ala	Pro	Gly	Thr	Pro	Pro	Asp	Ala	Ala		
	210					215					220						
Pro	Ala	Pro	Ala	Pro	Ser	Pro	Glu	Thr	Arg	Pro							
225					230					235							

<210> 9255

<211> 283

<212> PRT

<213> Enterobacter cloacae

<400> 9255

Pro	Pro	Gln	Arg	Cys	Glu	Ser	Ala	Gly	Ala	Thr	His	Leu	Gly	Lys	Lys		
1				5					10					15			
Arg	Met	Asn	Thr	Phe	Ala	Leu	Met	Arg	Asp	Ala	Phe	Pro	Val	Gly	Phe		
			20					25					30				
Pro	Ile	Met	Ser	Ala	Ile	Leu	Gly	Gly	Ile	Val	Gly	Ser	Phe	Leu	Gly		
		35					40					45					
Val	Val	Ala	Glu	Arg	Val	Pro	Gly	Met	Val	Met	Asp	Glu	Glu	Gly	Ser		
	50					55					60						
Gly	Asn	Leu	Leu	Ile	Pro	Ala	Ser	His	Cys	Pro	Val	Cys	Gln	His	Ala		
65				70					75					80			
Leu	Ala	Ala	Trp	Glu	Asn	Ile	Pro	Leu	Leu	Ser	Trp	Leu	Leu	Leu	Arg		
				85					90					95			
Gly	Arg	Cys	His	Gln	Cys	Gly	Ser	Ala	Ile	Pro	Leu	Arg	Leu	Phe	Leu		
			100					105					110				
Val	Glu	Leu	Ile	Ser	Ala	Leu	Phe	Gly	Ile	Thr	Ala	Trp	Cys	Met			
		115						120				125					
Pro	Asp	Val	Gln	Ala	Leu	Phe	Ser	Leu	Trp	Leu	Leu	Ala	Ala	Phe	Leu		
	130					135						140					
Leu	Pro	Leu	Ala	Met	Ile	Asp	Trp	Gln	His	Gln	Leu	Leu	Pro	Asp	Cys		
145				150					155					160			
Leu	Thr	Gln	Pro	Leu	Leu	Trp	Ala	Gly	Leu	Leu	Leu	His	Val	Phe	Asp		
				165					170					175			
His	Thr	Leu	Pro	Leu	Arg	Asp	Ala	Leu	Phe	Gly	Ala	Val	Ala	Gly	Tyr		
			180					185					190				
Leu	Ser	Leu	Trp	Leu	Leu	Tyr	Trp	Ala	Phe	Arg	Leu	Ile	Thr	Gly	Arg		
		195					200					205					
Glu	Gly	Leu	Gly	Tyr	Gly	Asp	Phe	Lys	Leu	Leu	Ala	Ala	Leu	Gly	Ala		
	210					215					220						
Trp	Cys	Gly	Trp	Gln	Ala	Leu	Pro	Ser	Ile	Glu	Leu	Ala	Ala	Ala	Leu		
225					230					235					240		
Ser	Gly	Ile	Val	Gly	Tyr	Phe	Ala	Val	Asn	Asn	Leu	Asn	Lys	Asn	Asn		
				245					250					255			
Leu	Ser	Ile	Ser	Phe	Gly	Pro	Tyr	Leu	Ala	Phe	Ala	Gly	Ile	Gly	Val		
			260					265					270				
Phe	Ile	Ser	Gln	Gln	Ile	Ala	Phe	Thr	Phe								
		275						280									

<210> 9256

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 9256

Pro	Ile	Asn	His	Ser	Pro	Phe	Arg	Gly	Gly	Val	Ile	Gln	Asn	Ser	Phe		
1				5					10					15			

Tyr Arg Met Leu Val Arg Arg Asn Asn Arg Asn Cys Gln Gln Val Lys
 20 25 30
 Met Lys Lys Leu Ile Leu Leu Leu Ile Ile Ser Gln Ser Ala Leu
 35 40 45
 Ala Asn Cys Trp Asp Lys Ala Ala His Tyr Tyr His Val Asp Pro Tyr
 50 55 60
 Leu Leu Tyr Ala Ile Ala Asn Val Glu Ser Gly Met Asn Pro Tyr Ala
 65 70 75 80
 Val Gly Gln Asn Arg Asp Gly Thr Arg Asp Val Gly Leu Met Gln Ile
 85 90 95
 Asn Ser Ser His Phe Thr Ala Leu Glu Ser Arg Gly Ile Asp Glu Tyr
 100 105 110
 Arg Leu Ile Thr Glu Pro Cys Thr Ser Ile Met Val Gly Ala Ser Ile
 115 120 125
 Leu Ser Gly Met Ile Arg Val Tyr Gly Tyr Asn Trp Glu Ala Val Gly
 130 135 140
 Ala Tyr Asn Ala Gly Leu Lys Lys Glu Asn Tyr Pro Gln Arg Met Lys
 145 150 155 160
 Tyr Ala His Lys Val Trp Ala Lys Tyr Gln Gln Leu Lys Leu Ala Ala
 165 170 175
 Arg Tyr

<210> 9257

<211> 380

<212> PRT

<213> Enterobacter cloacae

<400> 9257

Pro Glu Gln Leu Phe Gly Ile Phe Met Asn Leu Lys Gly Lys Arg Arg
 1 5 10 15
 Lys Leu Phe Leu Leu Leu Ala Val Val Val Leu Ala Gly Gly Phe Trp
 20 25 30
 Leu Trp Lys Val Leu Asn Ala Pro Val Pro Gln Tyr Gln Thr Leu Ile
 35 40 45
 Val Arg Pro Gly Glu Leu Gln Gln Asn Val Leu Ala Thr Gly Lys Leu
 50 55 60
 Asp Ala Leu Arg Lys Val Asp Val Gly Ala Gln Val Ser Gly Gln Leu
 65 70 75 80
 Lys Thr Leu Ser Val Glu Ile Gly Asp Lys Val Lys Lys Gly Gln Leu
 85 90 95
 Leu Gly Val Ile Asp Pro Glu Gln Ala Gln Asn Gln Ile Arg Glu Val
 100 105 110
 Glu Ala Thr Leu Met Glu Leu Arg Ala Gln Arg Ala Gln Ala Gln Ala
 115 120 125
 Glu Arg Asn Leu Ala Gln Val Thr Leu Thr Arg Gln Gln Ala Leu Ala
 130 135 140
 Lys Thr Gln Ala Ile Ser Lys Gln Asp Leu Asp Thr Ala Ala Thr Glu
 145 150 155 160
 Leu Ala Val Lys Gln Ala Gln Ile Gly Thr Ile Asp Ala Gln Ile Lys
 165 170 175
 Arg Asn Gln Ala Ser Leu Asp Thr Ala Lys Thr Asn Leu Asp Tyr Thr
 180 185 190
 Gln Ile Val Ala Pro Met Ala Gly Glu Val Thr Gln Ile Thr Thr Leu
 195 200 205
 Gln Gly Gln Thr Val Ile Ala Ala Gln Gln Ala Pro Asn Ile Leu Thr
 210 215 220
 Leu Ala Asp Met Ser Thr Met Leu Val Lys Ala Gln Val Ser Glu Ala
 225 230 235 240
 Asp Val Ile His Leu Lys Pro Gly Gln Lys Ala Trp Phe Thr Val Leu
 245 250 255

Gly Asp Pro Gln Thr Arg Tyr Glu Gly Val Leu Lys Asp Ile Leu Pro
 260 265 270
 Thr Pro Glu Lys Val Asn Asp Ala Ile Phe Tyr Tyr Ala Arg Phe Glu
 275 280 285
 Val Pro Asn Pro Gln Gly Val Leu Arg Leu Asp Met Thr Ala Gln Val
 290 295 300
 His Ile Gln Leu Thr Gly Val Lys Asn Val Leu Thr Val Pro Leu Ser
 305 310 315 320
 Ala Leu Gly Glu Ser Ala Gly Asp Asn Arg Tyr Lys Val Lys Val Leu
 325 330 335
 Arg Asn Gly Glu Thr Arg Glu Arg Glu Val Val Ile Gly Ala Arg Asn
 340 345 350
 Asp Thr Asp Val Val Val Val Lys Gly Leu Glu Glu Gly Glu Glu Val
 355 360 365
 Val Thr Ser Glu Thr Leu Pro Gly Ala Ala Gln
 370 375 380

<210> 9258

<211> 131

<212> PRT

<213> Enterobacter cloacae

<400> 9258

Gln Thr Ser Arg Met Thr Val Ile Asp Asp Cys Tyr Leu Thr Ser Glu
 1 5 10 15
 Val Asp Ser Lys Trp Leu Cys Ile Met Gly Lys Thr Asn Asp Trp Leu
 20 25 30
 Asp Phe Asp Gln Leu Ala Glu Asp Lys Val Arg Asp Ala Leu Lys Pro
 35 40 45
 Pro Ser Met Tyr Lys Val Met Leu Met Asn Asp Asp Tyr Thr Pro Met
 50 55 60
 Glu Phe Val Ile Asp Val Leu Gln Lys Phe Phe Ser Tyr Asp Val Glu
 65 70 75 80
 Arg Ala Thr Gln Leu Met Leu Thr Val His Tyr Arg Gly Lys Ala Ile
 85 90 95
 Cys Gly Ile Phe Thr Ala Glu Val Ala Glu Thr Lys Val Ala Met Val
 100 105 110
 Asn Asp Tyr Ala Arg Glu Asn Glu His Pro Leu Leu Cys Thr Leu Glu
 115 120 125
 Lys Ala
 130

<210> 9259

<211> 768

<212> PRT

<213> Enterobacter cloacae

<400> 9259

Gly Ile Lys Leu Gly Glu Val Pro Met Leu Asn Gln Glu Leu Glu Leu
 1 5 10 15
 Ser Leu Asn Met Ala Phe Ala Arg Ala Arg Glu His Arg His Glu Phe
 20 25 30
 Met Thr Val Glu His Leu Leu Leu Ala Leu Leu Ser Asn Pro Ser Ala
 35 40 45
 Arg Glu Ala Leu Glu Ala Cys Ser Val Asp Leu Val Ala Leu Arg Gln
 50 55 60
 Glu Leu Glu Ala Phe Ile Glu Gln Thr Thr Pro Val Leu Pro Ala Ser
 65 70 75 80
 Glu Glu Glu Arg Asp Thr Gln Pro Thr Leu Ser Phe Gln Arg Val Leu
 85 90 95
 Gln Arg Ala Val Phe His Val Gln Ser Ser Gly Arg Ser Glu Val Thr

			100					105					110		
Gly	Ala	Asn	Val	Leu	Val	Ala	Ile	Phe	Ser	Glu	Gln	Glu	Ser	Gln	Ala
		115					120					125			
Ala	Tyr	Leu	Leu	Arg	Lys	His	Glu	Val	Ser	Arg	Leu	Asp	Val	Val	Asn
		130				135					140				
Phe	Ile	Ser	His	Gly	Thr	Arg	Lys	Asp	Glu	Pro	Asn	Gln	Ala	Ser	Asp
145				150					155						160
Pro	Ser	Gly	Gln	Ile	Asn	Ser	Asn	Glu	Glu	Gln	Ala	Gly	Gly	Glu	Asp
				165				170						175	
Arg	Met	Glu	Asn	Phe	Thr	Thr	Asn	Leu	Asn	Gln	Leu	Ala	Arg	Val	Gly
			180				185						190		
Gly	Ile	Asp	Pro	Leu	Ile	Gly	Arg	Asp	Lys	Glu	Leu	Glu	Arg	Ala	Ile
		195				200						205			
Gln	Val	Leu	Cys	Arg	Arg	Arg	Lys	Asn	Asn	Pro	Leu	Leu	Val	Gly	Glu
		210				215				220					
Ser	Gly	Val	Gly	Lys	Thr	Ala	Ile	Ala	Glu	Gly	Leu	Ala	Trp	Arg	Ile
225				230					235						240
Val	Gln	Gly	Asp	Val	Pro	Glu	Val	Ile	Ala	Asp	Cys	Thr	Ile	Tyr	Ser
				245				250						255	
Leu	Asp	Ile	Gly	Ser	Leu	Leu	Ala	Gly	Thr	Lys	Tyr	Arg	Gly	Asp	Phe
			260				265						270		
Glu	Lys	Arg	Phe	Lys	Ala	Leu	Leu	Lys	Gln	Leu	Glu	Gln	Asp	Thr	Asn
		275				280						285			
Ser	Ile	Leu	Phe	Ile	Asp	Glu	Ile	His	Thr	Ile	Ile	Gly	Ala	Gly	Ala
		290				295				300					
Ala	Ser	Gly	Gly	Gln	Val	Asp	Ala	Ala	Asn	Leu	Ile	Lys	Pro	Leu	Leu
305				310					315						320
Ser	Ser	Gly	Lys	Ile	Arg	Val	Met	Gly	Ser	Thr	Thr	Tyr	Gln	Glu	Phe
				325				330						335	
Ser	Asn	Ile	Phe	Glu	Lys	Asp	Arg	Ala	Leu	Ala	Arg	Arg	Phe	Gln	Lys
			340				345						350		
Ile	Asp	Val	Thr	Glu	Pro	Ser	Val	Asp	Glu	Thr	Val	Gln	Ile	Ile	Asn
		355				360						365			
Gly	Leu	Lys	Thr	Lys	Tyr	Glu	Ala	His	His	Asp	Val	Arg	Tyr	Thr	Ala
		370				375					380				
Lys	Ala	Val	Arg	Ala	Ala	Val	Glu	Leu	Ala	Val	Lys	Tyr	Ile	Asn	Asp
385				390						395					400
Arg	His	Leu	Pro	Asp	Lys	Ala	Ile	Asp	Val	Ile	Asp	Glu	Ala	Gly	Ala
				405				410						415	
Arg	Ala	Arg	Leu	Met	Pro	Ala	Ser	Lys	Arg	Lys	Lys	Thr	Val	Asn	Val
			420				425						430		
Ala	Asp	Ile	Glu	Ser	Val	Val	Ala	Arg	Ile	Ala	Arg	Ile	Pro	Glu	Lys
		435					440					445			
Ser	Val	Ser	Gln	Ser	Asp	Arg	Asp	Thr	Leu	Arg	Thr	Leu	Gly	Asn	Arg

Gly	Thr	Leu	Thr	Asp	Asn	Asn	Gly	Arg	Lys	Ala	Asp	Phe	Arg	Asn	Val
		595					600					605			
Val	Leu	Val	Met	Thr	Thr	Asn	Ala	Gly	Val	Arg	Glu	Thr	Glu	Arg	Lys
	610					615					620				
Ser	Ile	Gly	Leu	Ile	His	Gln	Asp	Asn	Ser	Thr	Asp	Ala	Met	Glu	Glu
625					630					635					640
Ile	Lys	Lys	Ile	Phe	Thr	Pro	Glu	Phe	Arg	Asn	Arg	Leu	Asp	Asn	Ile
				645					650					655	
Ile	Trp	Phe	Asp	His	Leu	Ser	Thr	Glu	Val	Ile	His	Gln	Val	Val	Asp
			660					665					670		
Lys	Phe	Ile	Val	Glu	Leu	Gln	Val	Gln	Leu	Asp	Gln	Lys	Gly	Val	Ser
		675					680					685			
Leu	Glu	Val	Ser	Gln	Glu	Ala	Arg	Asn	Trp	Leu	Ala	Glu	Lys	Gly	Tyr
		690				695					700				
Asp	Arg	Ala	Met	Gly	Ala	Arg	Pro	Met	Ala	Arg	Val	Ile	Gln	Asp	Asn
705					710					715					720
Leu	Lys	Lys	Pro	Leu	Ala	Asn	Glu	Leu	Leu	Phe	Gly	Ser	Leu	Val	Asp
				725					730					735	
Gly	Gly	Gln	Val	Thr	Val	Gly	Leu	Asp	Gln	Ala	Lys	Asn	Glu	Leu	Thr
			740					745					750		
Tyr	Asp	Phe	Gln	Ser	Ala	Ala	Lys	His	Lys	Pro	Glu	Ala	Ala	His	
		755					760					765			

<210> 9260

<211> 206

<212> PRT

<213> Enterobacter cloacae

<400> 9260

Gln	Ser	Phe	Pro	Glu	Met	Lys	Lys	Pro	Thr	Arg	Ala	Pro	Ala	Gly	Gln
1				5					10					15	
Ile	Arg	Ile	Ile	Gly	Gly	Gln	Trp	Arg	Gly	Arg	Lys	Leu	Pro	Val	Pro
			20					25					30		
Asp	Ser	Pro	Gly	Leu	Arg	Pro	Thr	Thr	Asp	Arg	Val	Arg	Glu	Thr	Leu
		35					40					45			
Phe	Asn	Trp	Leu	Ala	Pro	Ser	Met	Val	Asp	Ala	Asn	Cys	Leu	Asp	Cys
		50				55				60					
Phe	Ala	Gly	Ser	Gly	Ala	Leu	Gly	Leu	Glu	Ala	Leu	Ser	Arg	Tyr	Ala
65					70				75						80
Ala	Ser	Ala	Thr	Leu	Leu	Glu	Met	Glu	Arg	Gly	Val	Ala	Gln	Thr	Leu
				85				90						95	
Gln	Gln	Asn	Leu	Ala	Thr	Leu	Lys	Ala	Thr	Asn	Ala	Lys	Val	Val	Asn
			100					105					110		
Thr	Asn	Thr	Leu	Ser	Phe	Leu	Ala	Gln	Gln	Gly	Thr	Pro	Tyr	Asn	Val
		115					120					125			
Val	Phe	Val	Asp	Pro	Pro	Phe	Arg	Lys	Gly	Leu	Leu	Glu	Glu	Thr	Leu
		130				135					140				
Ser	Leu	Leu	Glu	Gln	Asn	Gly	Trp	Leu	Ala	Asp	Asp	Ala	Leu	Ile	Tyr
145					150					155					160
Val	Glu	Ser	Glu	Val	Glu	Asn	Gly	Leu	Pro	Pro	Val	Pro	Val	His	Trp
				165					170					175	
Asp	Leu	His	Arg	Glu	Lys	Val	Ala	Gly	Gln	Val	Ala	Tyr	Arg	Leu	Tyr
			180					185					190		
His	Arg	Gln	Ala	Gln	Gly	Gly	Ser	Asp	Ala	Ser	Thr	Asp			
		195					200					205			

<210> 9261

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 9261

Ser Lys Arg Tyr Asn Met Asn Ser Phe Thr Gln Ser Gln Arg Val Lys
 1 5 10 15
 Ala Leu Phe Trp Leu Ser Leu Phe His Leu Leu Val Ile Ile Ser Ser
 20 25 30
 Asn Tyr Leu Val Gln Leu Pro Ile Ser Ile Phe Gly Phe His Thr Thr
 35 40 45
 Trp Gly Ala Phe Ser Phe Pro Phe Ile Phe Leu Ala Thr Asp Leu Thr
 50 55 60
 Val Arg Ile Phe Gly Ala Pro Leu Ala Arg Arg Ile Ile Phe Ala Val
 65 70 75 80
 Met Ile Pro Ala Leu Phe Val Ser Tyr Ala Ile Ser Ser Leu Phe Tyr
 85 90 95
 Met Gly Ser Trp Gln Gly Phe Glu Ala Leu Thr His Phe Asn Leu Phe
 100 105 110
 Val Ala Arg Ile Ala Thr Ala Ser Phe Met Ala Tyr Ala Leu Gly Gln
 115 120 125
 Ile Leu Asp Val His Val Phe Asn Arg Leu Arg Gln Asn His Arg Trp
 130 135 140
 Trp Met Ala Pro Thr Ala Ser Thr Leu Phe Gly Asn Val Ser Asp Thr
 145 150 155 160
 Leu Ala Phe Phe Phe Ile Ala Phe Trp Arg Ser Pro Asp Ala Phe Met
 165 170 175
 Ala Glu His Trp Met Glu Ile Ala Leu Val Asp Tyr Ala Phe Lys Val
 180 185 190
 Leu Ile Ser Leu Val Phe Phe Leu Pro Met Tyr Gly Val Leu Leu Asn
 195 200 205
 Met Leu Leu Lys Arg Leu Ala Asp Lys Ser Glu Ile Ser Ala Leu Gln
 210 215 220
 Ala Gly
 225

<210> 9262

<211> 200

<212> PRT

<213> Enterobacter cloacae

<400> 9262

Thr Asn Glu Pro Leu Trp Pro Phe Ile Glu Arg Lys Lys Ser Met Arg
 1 5 10 15
 Asn Leu Val Lys Tyr Val Gly Ile Gly Leu Leu Val Val Gly Leu Ala
 20 25 30
 Ala Cys Asp Asn Ser Asp Thr Lys Thr Pro Ala Gln Gly Ala Ser Ala
 35 40 45
 Glu Ser Asn Ala Thr Gly Gln Pro Val Ser Leu Met Asp Gly Lys Leu
 50 55 60
 Ser Phe Ser Leu Pro Ala Asp Met Thr Asp Gln Ser Gly Lys Leu Gly
 65 70 75 80
 Thr Gln Ala Asn Asn Met His Val Tyr Ser Asp Ala Thr Gly Gln Lys
 85 90 95
 Ala Val Ile Val Ile Val Gly Asp Asp Thr Ser Glu Asp Leu Gly Val
 100 105 110
 Leu Ala Lys Arg Leu Glu Asp Gln Gln Arg Ser Arg Asp Pro Gln Leu
 115 120 125
 Gln Val Val Thr Asn Lys Ser Val Glu Leu Lys Gly His Thr Leu Gln
 130 135 140
 Gln Leu Asp Ser Ile Ile Ser Ala Lys Gly Gln Thr Ala Tyr Ser Ser
 145 150 155 160
 Val Val Leu Gly Lys Val Asp Asn Lys Leu Leu Thr Met Gln Ile Thr
 165 170 175
 Leu Pro Ala Asp Asn Gln Gln Lys Ala Gln Thr Ala Ala Glu Asn Ile

180 185 190
 Ile Asn Thr Leu Val Ile Gln
 195 200

<210> 9263

<211> 371

<212> PRT

<213> Enterobacter cloacae

<400> 9263

Arg Ser Arg Arg Ser Pro Ser Gly Ala Leu Gln Leu Thr Arg Pro Pro
 1 5 10 15
 Glu Lys Gly Ile Leu Met Thr Ala Ser Pro Pro Asp Lys Ala Gly Leu
 20 25 30
 His Ile Leu Leu Lys Leu Ala Cys Leu Val Val Ile Leu Ala Gly Ile
 35 40 45
 His Ala Ala Ala Asp Ile Ile Val Gln Leu Leu Leu Ala Leu Phe Phe
 50 55 60
 Ala Ile Val Leu Asn Pro Leu Val Thr Trp Phe Leu Arg Arg Gly Ile
 65 70 75 80
 Ser Arg Pro Val Ala Ile Thr Ile Val Val Met Val Met Leu Val Val
 85 90 95
 Leu Thr Ala Leu Phe Gly Val Leu Ala Ala Ser Leu Ser Glu Phe Ser
 100 105 110
 Thr Met Leu Pro Gln Tyr Asn Lys Glu Leu Thr Arg Lys Leu Val Asp
 115 120 125
 Leu Gln Arg Met Leu Pro Phe Val Asn Leu His Ile Ser Pro Glu Arg
 130 135 140
 Met Leu Arg Arg Met Asp Ser Glu Lys Val Met Thr Tyr Ala Thr Thr
 145 150 155 160
 Leu Met Thr Gly Leu Ser Gly Ala Met Ala Ser Ile Leu Leu Leu Val
 165 170 175
 Met Thr Val Val Phe Met Leu Phe Glu Val Arg His Val Pro Tyr Lys
 180 185 190
 Leu Arg Phe Ala Leu Asn Asn Pro Gln Ile His Ile Ala Gly Leu His
 195 200 205
 Arg Ala Leu Lys Gly Val Ser Lys Tyr Leu Ala Leu Lys Thr Leu Leu
 210 215 220
 Ser Leu Trp Thr Gly Val Ile Val Trp Leu Gly Leu Val Leu Leu Asp
 225 230 235 240
 Val Gln Phe Ala Leu Met Trp Gly Val Leu Ala Phe Leu Leu Asn Tyr
 245 250 255
 Val Pro Asn Ile Gly Ala Val Leu Ser Ala Val Pro Pro Met Ile Gln
 260 265 270
 Ala Phe Leu Phe Asn Gly Phe Tyr Glu Cys Met Leu Val Gly Ala Leu
 275 280 285
 Phe Leu Ile Val His Met Val Leu Gly Asn Ile Leu Glu Pro Arg Met
 290 295 300
 Met Gly His Arg Leu Gly Met Ser Thr Met Val Val Phe Leu Ser Leu
 305 310 315 320
 Leu Ile Trp Gly Trp Leu Leu Gly Pro Val Gly Met Leu Leu Ser Val
 325 330 335
 Pro Leu Thr Ser Val Cys Lys Ile Trp Met Glu Thr Thr Lys Gly Gly
 340 345 350
 Ser Lys Leu Ala Ile Leu Leu Gly Pro Gly Arg Pro Lys Ser Arg Leu
 355 360 365
 Pro Gly
 370

<210> 9264

<211> 452

<212> PRT

<213> Enterobacter cloacae

<400> 9264

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Arg Lys Thr Met Leu Asn Pro Leu Pro Leu Ser Gln Trp Leu Ser Ala
1      5      10      15
Pro Arg Pro Asp Asp Thr Pro Val Ala Trp Gln Asp Asp His Leu Trp
20      25      30
Thr Leu Gly Asp Leu Arg His Asp Val Thr Gln Leu Val Asp Thr Leu
35      40      45
Arg Arg Glu Asp Gly Glu Arg Trp Ala Leu Cys Ile Glu Asn Gly Tyr
50      55      60
Leu Phe Ile Val Ala Leu Leu Ala Thr Leu His Ala Gly Lys Thr Pro
65      70      75      80
Val Leu Pro Gly His Ser Arg Ala Ala Gln Leu Asn Glu Gln Arg Ala
85      90      95
Leu Phe Ser Gly Val Leu Ser Asp Thr Thr Leu Asp Phe Gln Gly Gln
100     105     110
Gln Leu Arg Val Ala Ser Ala Gln Arg Ala Gly His Pro Phe Ser Pro
115     120     125
Leu Pro Ala Ile Gly Glu Met Arg Thr Ile Glu Leu Tyr Thr Ser Gly
130     135     140
Ser Thr Gly Thr Pro Gln Arg Val Ser Lys Pro Val Val Ser Leu Asp
145     150     155     160
Arg Glu Ala Arg Leu Leu Ala Ala His Phe Gly Glu Arg Leu Ala Gly
165     170     175
Cys His Val Val Ala Ser Val Val Leu His His Leu Tyr Gly Leu Thr
180     185     190
Phe Arg Val Val Leu Pro Leu Ala Leu Gly Leu Pro Leu His Ala Ser
195     200     205
Leu Leu Asn Tyr Ala Glu Gln Leu Ser Ala Leu Pro Asp Asp Lys Arg
210     215     220
Tyr Leu Phe Ile Ser Ser Pro Ala Phe Leu Lys Arg Leu Asp Ala Ser
225     230     235     240
Leu Thr Pro Pro Pro Val Asn Leu Leu Phe Ser Ala Gly Gly Ala Leu
245     250     255
Pro Trp Gln Glu Val Ala Ala Val Gln Ala Trp Leu Asn Val Trp Pro
260     265     270
Asp Glu Ile Tyr Gly Ser Thr Glu Thr Gly Val Met Ala Trp Arg Tyr
275     280     285
Arg Gln Glu Glu Ser Thr Arg Trp Gln Pro Phe Pro Gly Val Thr Phe
290     295     300
His Gly Asp Arg Val Met Ser Pro Leu Ile Pro Glu Val Glu Gly Val
305     310     315     320
Val Leu Asp Asp Ile Leu His Phe Thr Ala Asp Gly Gln Phe Ser Leu
325     330     335
Val Gly Arg Arg Gly Arg Val Val Lys Ile Glu Asp Lys Arg Ile Ser
340     345     350
Leu Asp Asp Ile Glu Arg Arg Leu Leu Ala Leu Asp Gly Ile Arg Glu
355     360     365
Ala Ala Ala Leu Thr Val Thr Arg Gly Gly Arg Gln Gly Ile Gly Val
370     375     380
Leu Leu Val Leu Asn Glu Ala Val Arg Gln Gln His Glu Gln Gly Lys
385     390     395     400
Lys Ala Gln Glu Leu Ala Trp Arg Arg Ala Leu Arg Pro Trp Leu Glu
405     410     415
Pro Val Ala Val Pro Arg Tyr Trp Arg Ile Val Asp Glu Ile Pro Val
420     425     430
Asn Ser Met Asn Lys Arg Val Thr Ala Gln Leu Gln Glu Leu Phe His
435     440     445
Glu Asp Pro

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450

<210> 9265

<211> 576

<212> PRT

<213> Enterobacter cloacae

<400> 9265

Arg	Ala	Pro	His	Arg	Gln	Gln	Arg	Glu	Asp	Ser	Leu	Met	Ser	Val	Thr
1				5				10						15	
Phe	Arg	Pro	Cys	Val	Leu	Ile	Pro	Cys	Tyr	Asn	His	Gly	Ala	Met	Met
			20					25					30		
Ala	Ser	Val	Leu	Ala	Arg	Leu	Ala	Pro	Phe	Asp	Leu	Pro	Cys	Leu	Val
		35					40					45			
Val	Asp	Asp	Gly	Ser	Asp	Glu	Thr	Thr	Arg	Arg	Thr	Leu	Glu	Ala	Leu
	50					55					60				
Ala	Ala	Asp	Arg	Pro	Gln	Val	Thr	Leu	Leu	Arg	Leu	Ala	Glu	Asn	Ser
65					70					75				80	
Gly	Lys	Gly	Ala	Ala	Val	Met	Gln	Gly	Leu	Lys	Asp	Cys	Ala	Asp	Arg
			85					90						95	
Gly	Phe	Thr	His	Ala	Val	Gln	Val	Asp	Ala	Asp	Gly	Gln	His	Ala	Ile
			100					105					110		
Glu	Asp	Ile	Pro	Lys	Leu	Leu	Ala	Leu	Ala	Glu	Arg	His	Pro	Asp	Ala
	115					120						125			
Leu	Ile	Ser	Gly	Gln	Pro	Val	Tyr	Asp	Asp	Ser	Ile	Pro	Arg	Ser	Arg
	130					135						140			
Leu	Tyr	Gly	Arg	Trp	Ile	Thr	His	Val	Trp	Val	Trp	Ile	Glu	Thr	Leu
145					150					155					160
Ser	Leu	Gln	Leu	Lys	Asp	Ser	Met	Cys	Gly	Phe	Arg	Val	Tyr	Pro	Ile
			165					170						175	
Ala	Pro	Val	Leu	Arg	Leu	Ala	Ala	Thr	Thr	Pro	Leu	Gly	Arg	Arg	Met
			180					185					190		
Asp	Phe	Asp	Thr	Glu	Val	Met	Val	Arg	Leu	Tyr	Trp	Gln	Gly	Asn	Asn
	195					200						205			
Ser	Tyr	Phe	Leu	Pro	Thr	Arg	Val	Thr	Tyr	Pro	Pro	Asp	Gly	Val	Ser
	210					215					220				
His	Phe	Asp	Ala	Leu	Lys	Asp	Asn	Val	Arg	Ile	Ser	Leu	Met	His	Thr
225					230					235					240
Arg	Leu	Phe	Leu	Ser	Met	Leu	Pro	Arg	Ile	Pro	Ser	Leu	Leu	Met	Arg
			245						250					255	
Arg	Arg	Ser	Gln	His	Trp	Ala	Gln	Gln	Gln	Glu	Val	Lys	Gly	Leu	Trp
			260					265					270		
Gly	Met	Arg	Leu	Met	Leu	Arg	Val	Cys	Gln	Leu	Leu	Gly	Arg	Lys	Ala
	275					280						285			
Phe	Thr	Ala	Leu	Leu	Trp	Pro	Val	Thr	Ala	Val	Tyr	Trp	Leu	Thr	Ala
	290					295					300				
Arg	Ala	Ala	Arg	Gln	Ala	Ser	Gln	Gln	Trp	Leu	Thr	Arg	Val	Lys	Thr
305					310					315					320
Val	Met	Ala	Gln	Arg	Gln	Met	Pro	Gln	Pro	Ala	Arg	Leu	Asn	Ser	Phe
			325						330					335	
Ser	His	Phe	Leu	Arg	Phe	Gly	His	Ala	Met	Leu	Asn	Lys	Val	Ala	Ser
			340					345					350		
Trp	Arg	Gly	Glu	Met	Lys	Leu	His	Arg	Asp	Leu	Val	Phe	Ala	Pro	Gly
		355					360					365			
Ala	Gln	Glu	Ala	Leu	Gly	Leu	Asp	Asp	Pro	Gln	Gly	Lys	Leu	Leu	Leu
	370					375					380				
Ala	Ser	His	Leu	Gly	Asp	Val	Glu	Ala	Cys	Arg	Ala	Leu	Ala	Gln	Arg
385					390					395					400
Glu	Gly	Ala	Lys	Thr	Ile	Asn	Ala	Leu	Val	Phe	Ser	Asp	Asn	Ala	Arg
			405						410					415	
Arg	Phe	Lys	Gln	Val	Met	Glu	Glu	Met	Ala	Pro	Gln	Ala	Gly	Ile	His

```
<210> 9266
<211> 142
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 9267
<211> 417
<212> PRT
<213> Enterobacter cloacae
```

<400> 9267															
Thr	Val	Thr	Ala	Gly	Ala	Asn	Arg	Leu	Ala	Leu	Cys	Ser	Thr	Leu	Phe
1				5					10					15	
Thr	Thr	Thr	Ser	Pro	Phe	Asn	Ile	Trp	Val	Thr	Glu	Met	Ile	Tyr	Leu
			20					25					30		
Ser	Ala	Val	Gly	Met	Val	Asn	Ala	Leu	Gly	Asn	Ser	Ala	Asp	Glu	Ile
		35					40					45			
Ala	Ala	Asn	Leu	Ile	Ala	Gly	Val	Ala	Pro	Gly	Met	Arg	Gln	Arg	Ala
	50					55					60				
Gly	Trp	Leu	Gln	Gly	Leu	Pro	Glu	Ala	Val	Leu	Gly	Gly	Val	Glu	Gly
65				70						75					80

```
<210> 9268
<211> 110
<212> PRT
<213> Enterobacter cloacae
```

<400> 9268															
Arg	His	Ser	Ser	Leu	His	Tyr	Ala	Asp	Asp	Arg	His	Pro	Gln	Gly	Arg
1				5					10					15	
Ala	Asp	His	His	Pro	Val	Val	Gly	Val	Arg	His	Tyr	Gly	Gln	Pro	Trp
			20					25					30		
Ala	Gly	Glu	Leu	Gln	Arg	Gly	Glu	Ser	Arg	Asp	His	Arg	Arg	His	Gln
		35					40					45			
Ser	Ala	Arg	His	Arg	Ala	Gly	Lys	Thr	Gln	Asn	His	Arg	Gln	Leu	His
	50					55					60				
Arg	Ala	Gly	Ala	Asp	Arg	Tyr	Arg	His	Asp	Arg	Asp	Gly	Arg	Ser	Cys
65					70					75					80

Ala	Ala	Arg	Gly	Asp	Val	Asp	Tyr	Pro	Asp	Ala	Ala	Tyr	Gly	Pro	Gly
				85					90					95	
Arg	Gly	Gly	Arg	Gly	Ala	Gly	Glu	Leu	Pro	Asp	Val	Gly			
			100					105					110		

<210> 9269

<211> 414

<212> PRT

<213> Enterobacter cloacae

<400> 9269

Arg	Arg	His	Ala	Met	Thr	Arg	Arg	Val	Val	Ile	Thr	Gly	Met	Gly	Gly
1				5					10					15	
Val	Thr	Ala	Phe	Gly	Glu	Asp	Trp	Pro	Thr	Ile	Ser	Arg	Arg	Leu	Arg
			20					25					30		
Glu	Tyr	Glu	Asn	Ala	Val	Arg	Thr	Met	Thr	Glu	Trp	Gln	Ala	Tyr	Asp
		35					40					45			
Gly	Leu	Gln	Thr	Leu	Leu	Ala	Ala	Pro	Ile	Glu	Asp	Phe	Thr	Leu	Pro
	50					55					60				
Ala	His	Tyr	Thr	Arg	Lys	Arg	Ile	Arg	Ala	Met	Gly	Arg	Val	Ser	Leu
65					70					75					80
Leu	Ser	Thr	Arg	Ala	Thr	Glu	Leu	Ala	Leu	Glu	Gln	Ala	Gly	Leu	Ile
				85					90					95	
Asp	Asp	Ala	Val	Leu	Thr	Asn	Gly	Gln	Thr	Gly	Ile	Ala	Tyr	Gly	Ser
			100					105					110		
Ser	Thr	Gly	Ser	Thr	Gly	Pro	Val	Ser	Glu	Phe	Ala	Ser	Met	Leu	Thr
		115				120						125			
Glu	Lys	His	Thr	His	Asn	Ile	Thr	Gly	Thr	Thr	Tyr	Val	Gln	Met	Met
	130					135					140				
Pro	His	Thr	Thr	Ala	Val	Asn	Thr	Gly	Leu	Phe	Gly	Leu	Arg	Gly	
145					150					155					160
Arg	Val	Ile	Pro	Thr	Ser	Ser	Ala	Cys	Thr	Ser	Gly	Ser	Gln	Ala	Ile
				165				170						175	
Gly	Tyr	Ala	Trp	Glu	Thr	Ile	Arg	His	Gly	Tyr	Gln	Thr	Val	Met	Val
			180					185					190		
Ala	Gly	Gly	Ala	Glu	Glu	Leu	Cys	Pro	Ser	Glu	Ala	Ala	Val	Phe	Asp
		195					200					205			
Thr	Leu	Phe	Ala	Thr	Ser	Gln	Arg	Asn	Asp	Ala	Pro	Lys	Thr	Thr	Pro
	210					215					220				
Ser	Pro	Phe	Asp	Val	Gln	Arg	Asp	Gly	Leu	Val	Ile	Gly	Glu	Gly	Ala
					230					235					240
Gly	Thr	Leu	Val	Leu	Glu	Ala	Leu	Asp	His	Ala	Arg	Ala	Arg	Gly	Ala
				245					250					255	
Thr	Ile	Tyr	Gly	Glu	Ile	Val	Gly	Phe	Ala	Thr	Asn	Cys	Asp	Ala	Ala
			260					265					270		
His	Ile	Thr	Gln	Pro	Gln	Arg	Glu	Thr	Met	Gln	Val	Cys	Met	Glu	Gln
		275					280					285			
Ser	Leu	Ala	Met	Ala	Gly	Leu	Gly	Pro	Gln	Asp	Ile	Gly	Tyr	Ile	Ser
	290					295					300				
Ala	His	Gly	Thr	Ala	Thr	Asp	Arg	Gly	Asp	Ile	Ala	Glu	Ser	Gln	Ala
					310					315					320
Thr	Ala	Ala	Ile	Phe	Gly	Asp	Ser	Val	Pro	Ile	Ser	Ser	Leu	Lys	Ser
				325					330					335	
Tyr	Phe	Gly	His	Thr	Leu	Gly	Ala	Cys	Gly	Ala	Leu	Glu	Ala	Leu	Leu
			340					345					350		
Ser	Leu	His	Met	Met	Arg	Glu	Gly	Trp	Phe	Thr	Pro	Thr	Leu	Asn	Leu
		355					360					365			
Arg	Gln	Pro	Asp	Glu	Gln	Cys	Gly	Ala	Leu	Asp	Tyr	Ile	Met	Gly	Glu
	370					375					380				
Thr	Arg	Pro	Ile	Asp	Cys	Glu	Phe	Ile	Gln	Ser	Asn	Asn	Phe	Ala	Phe
					390					395					400

Gly Gly Ile Asn Thr Ser Ile Ile Ile Lys Arg Trp Ala
 405 410

<210> 9270
 <211> 144
 <212> PRT
 <213> Enterobacter cloacae

<400> 9270
 Ile Glu Tyr Thr Gly Pro Thr Leu Phe Asp Leu Asp Lys Gln Leu Met
 1 5 10 15
 Lys Leu Thr Ile Val Arg Leu Val Thr Phe Ser Asp Gln Asp His Ile
 20 25 30
 Asp Leu Gly Lys Ile Trp Pro Glu Tyr Ser Pro Ser Ser Leu Ala Val
 35 40 45
 Asp Glu Asn His Arg Ile Tyr Ala Ala Arg Phe Asn Glu Arg Leu Leu
 50 55 60
 Ala Ala Val Arg Val Thr Leu Ser Gly Thr Glu Gly Ala Leu Asp Ser
 65 70 75 80
 Leu Arg Val Arg Asp Val Thr Arg Arg Arg Gly Val Gly Gln Tyr Leu
 85 90 95
 Ile Glu Glu Val Ile Arg Glu Asn Pro Ser Val Thr Ser Trp Trp Met
 100 105 110
 Ala Asp Val Gly Val Glu Asp Arg Gly Val Met Ala Ala Phe Met Gln
 115 120 125
 Ala Leu Gly Phe Thr Ala Gln Ala Asn Gly Trp Glu Lys Arg Cys
 130 135 140

<210> 9271
 <211> 136
 <212> PRT
 <213> Enterobacter cloacae

<400> 9271
 Phe Thr Leu Lys Ala Lys Trp Lys Met Val Cys Arg Pro Phe Pro Phe
 1 5 10 15
 Thr Gly Ile Cys Thr Ala Arg Arg Ser Pro Ala Arg Trp Leu Ile Val
 20 25 30
 Cys Ile Thr Val Arg His Lys Glu Asp Pro Met Pro Val Leu Ile Asn
 35 40 45
 Val Gly Arg Leu Leu Met Leu Gly Val Trp Ala Phe Leu Ile Leu Asn
 50 55 60
 Leu Val His Pro Phe Pro Arg Pro Leu Asn Ile Phe Ile Asn Val Ala
 65 70 75 80
 Leu Ile Phe Thr Ala Phe Met His Ala Leu Gln Met Val Met Leu Lys
 85 90 95
 Asn Gly Leu Pro Lys Asp Ser Pro Pro Met Thr Gly Trp Gln Gln Leu
 100 105 110
 Arg Val Phe Ile Phe Gly Val Phe Glu Leu Leu Val Trp Met Lys Lys
 115 120 125
 Phe Lys Ala Gln Val Lys Lys
 130 135

<210> 9272
 <211> 251
 <212> PRT
 <213> Enterobacter cloacae

<400> 9272
 Lys Ile Pro Ser Asp Tyr Ala Glu Phe Arg Ile Pro Arg Leu Pro Arg
 1 5 10 15

His Cys Gln Thr Thr Ala Arg Val Thr Thr Leu Asp Gln Glu Leu Ile
 20 25 30
 Ile Gln Pro Gln Gln Leu Gln Gly Val Asn Met Leu Trp Ser Phe Ile
 35 40 45
 Ala Val Cys Phe Ser Ala Trp Leu Tyr Val Asp Ala Ser Tyr Arg Gly
 50 55 60
 Pro Ala Trp Gln Arg Trp Leu Phe Lys Pro Val Thr Leu Leu Leu Leu
 65 70 75 80
 Leu Leu Leu Ala Trp Gln Ala Pro Met Phe Asn Ala Val Ser Tyr Leu
 85 90 95
 Val Leu Ala Gly Leu Cys Ala Ser Leu Ile Gly Asp Ala Leu Thr Leu
 100 105 110
 Leu Pro Arg Gln Arg Leu Leu Tyr Ala Val Gly Ala Phe Phe Leu Ser
 115 120 125
 His Leu Leu Tyr Thr Ile Tyr Phe Ala Ser Gln Met Thr Leu Ser Phe
 130 135 140
 Phe Trp Pro Leu Pro Leu Val Leu Leu Val Ile Gly Ala Leu Leu Ile
 145 150 155 160
 Ala Val Ile Trp Ser Arg Leu Glu Glu Met Arg Leu Pro Val Cys Thr
 165 170 175
 Phe Ile Ala Met Thr Leu Val Met Val Trp Leu Ala Gly Glu Leu Trp
 180 185 190
 Phe Phe Arg Pro Thr Ala Pro Ala Met Ser Ala Phe Phe Gly Ala Ala
 195 200 205
 Leu Leu Leu Leu Gly Asn Ile Val Trp Leu Gly Ser His Tyr Arg Arg
 210 215 220
 Arg Phe Arg Ala Asp Asn Ala Ile Ser Ala Ala Cys Tyr Phe Ala Gly
 225 230 235 240
 His Phe Leu Ile Val Arg Ser Leu Tyr Ile
 245 250

<210> 9273

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 9273

Arg Ala Arg Ala Ala Lys Pro Pro Val Pro Ala Pro Leu Pro Ala
 1 5 10 15
 Gly Arg Ala Pro Val His Pro Ala Gly Arg Ala Pro Ala Val Ala Met
 20 25 30
 Asp Ala Pro Met Arg Gly Leu Arg Ser Arg Leu Asp Arg Leu Trp Arg
 35 40 45
 Met Leu Met Thr Gly Leu Cys Phe Ala Leu Phe Gly Leu Gly Gly Leu
 50 55 60
 Thr Leu Ser Leu Val Trp Phe Asn Leu Leu Leu Ile Phe Gln Arg Asp
 65 70 75 80
 Arg Thr Gln Arg Arg Arg Leu Ala Arg Arg Thr Ile Ser Ala Ser Phe
 85 90 95
 Arg Leu Phe Leu Ala Val Val Arg Gly Ala Gly Val Leu Asp Tyr Arg
 100 105 110
 Phe Asn Asn Leu Asp Val Leu Arg Ala Glu Arg Gly Cys Leu Val Ile
 115 120 125
 Ala Asn His Pro Ser Leu Leu Asp Tyr Val Leu Leu Ala Ser Val Met
 130 135 140
 Asn Glu Thr Asp Cys Leu Val Lys Ser Ala Leu Leu Arg Asn Pro Phe
 145 150 155 160
 Val Ser Gly Val Ile Arg Ala Ala Asp Tyr Leu Ile Asn Ser Glu Ala
 165 170 175
 Asp Thr Leu Leu Ala Ala Ser Gln Gln Arg Leu Ser Gln Gly Asp Thr
 180 185 190

Leu Leu Ile Phe Pro Glu Gly Thr Arg Thr Arg Val Gly Glu Ala Met
 195 200 205
 Thr Leu Gln Arg Gly Ala Ala Asn Ile Ala Val Arg Cys Asn Ser Ala
 210 215 220
 Val Arg Val Val Val Ile His Cys Ser Glu Arg Met Leu Asp Lys Gln
 225 230 235 240
 Ser Ser Trp Tyr Asn Val Pro Pro Asn Lys Pro Val Phe Thr Val Asp
 245 250 255
 Val Arg Glu Arg Ile Asn Ile His Asp Phe Tyr Asp Ala Ser Gln His
 260 265 270
 Glu Pro Ala Leu Ala Ala Arg Gln Leu Asn Arg His Met Gln His Gln
 275 280 285
 Leu Thr Thr Gly Leu Gln Ser Leu Ser Gly Thr Lys Asp Ala Ser Ala
 290 295 300
 Leu Ser
 305

<210> 9274

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 9274

Arg Asp Ala Ser Ala Leu Leu Phe Arg Cys His Ala Arg Gly Phe Tyr
 1 5 10 15
 Pro Ser Thr Thr Arg Leu Arg Met Thr Ala Met Thr Glu Gln Gln Thr
 20 25 30
 Ile Tyr Gln Glu Val Ser Ala Leu Leu Ile Thr Leu Phe Glu Ile Ala
 35 40 45
 Pro Glu Asp Ile Thr Pro Glu Ala Arg Leu Tyr Glu Asp Leu Asp Leu
 50 55 60
 Asp Ser Ile Asp Ala Val Asp Met Val Val His Leu Gln Lys Lys Thr
 65 70 75 80
 Gly His Lys Ile Lys Pro Glu Thr Phe Lys Ala Val Arg Thr Val Gln
 85 90 95
 Asp Val Val Asp Val Val Glu Gln Leu Gln Arg Asp Ala
 100 105 110

<210> 9275

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 9275

Cys Leu Pro Arg His Gly Pro Arg Glu His Leu Pro Ala Glu Arg Gly
 1 5 10 15
 Arg Ile Asn His Thr Phe Gln Pro Gly Asn Thr Ile Met Arg Ser Val
 20 25 30
 Leu Val Thr Gly Ala Ser Lys Gly Ile Gly Arg Ala Ile Ala Leu Gln
 35 40 45
 Leu Ala Ala Asp Gly Phe Thr Val Gly Val His Tyr His Arg Asp Glu
 50 55 60
 Ala Gly Ala Gln Glu Thr Leu Glu Ala Ile Val Gln Ala Gly Gly Ala
 65 70 75 80
 Gly Arg Leu Leu Thr Phe Asp Val Gly Asn Arg Glu Gln Cys Arg Thr
 85 90 95
 Val Leu Glu Gln Glu Ile Ala Asp His Gly Ala Trp Tyr Gly Val Val
 100 105 110
 Ser Asn Ala Gly Ile Thr Arg Asp Gly Ala Phe Pro Ala Leu Ser Asp
 115 120 125
 Asp Asp Trp Asp Ser Val Ile His Thr Asn Leu Asp Ser Phe Tyr Asn

130		135		140
Val Ile His Pro Cys Ile Met Pro Met Ile Gly Thr Arg Lys Gly Gly				
145		150		155
Arg Ile Ile Thr Leu Ser Ser Val Ser Gly Ile Met Gly Asn Arg Gly				160
	165		170	175
Gln Val Asn Tyr Ser Ala Ala Lys Ala Gly Ile Ile Gly Ala Thr Lys				
	180		185	190
Ala Leu Ala Thr Glu Leu Ala Lys Arg Lys Ile Thr Val Asn Cys Ile				
	195		200	205
Ala Pro Gly Leu Ile Asp Thr Gly Met Ile Glu Met Asp Glu Ala Ala				
	210		215	220
Leu His Ala Ala Met Ser Ile Ile Pro Met Gln Arg Met Gly Gln Ala				
225		230		235
Glu Glu Val Ala Gly Leu Ala Ser Tyr Leu Met Ser Asp Lys Ala Gly				240
	245		250	255
Tyr Val Thr Arg Gln Val Ile Ser Ile Asn Gly Gly Met Leu				
	260		265	270

<210> 9276

<211> 266

<212> PRT

<213> Enterobacter cloacae

<400> 9276

Thr Met Lys Ile Asp Leu Thr Gly Lys Val Ala Leu Val Thr Ala Ser				
1	5		10	15
Thr Gly Gly Ile Gly Phe Ala Ile Ala Arg Gly Leu Ala Glu Ser Gly				
	20		25	30
Ala Glu Val Ile Val Asn Gly Arg Ser Val Asp Ser Val Asn Lys Gly				
	35		40	45
Ile Gln Ala Leu Gln Gln Val Val Pro Gly Val Gln Val Arg Ala Ala				
	50		55	60
Ile Ala Asp Leu Ser Ser Gln Glu Gly Val Asp Glu Leu Leu Arg Val				
65	70		75	80
Ala Thr His Val Asp Ile Leu Val Asn Asn Ala Gly Ile Tyr Gly Gln				
	85		90	95
Gln Asp Phe Tyr Ser Thr Asp Asp Glu Thr Trp Glu Arg Tyr Trp Gln				
	100		105	110
Thr Asn Val Met Ser Gly Val Arg Leu Ser Arg Ala Leu Leu Pro Gly				
	115		120	125
Met Val Gln Lys Gly Trp Gly Arg Val Val Phe Ile Ser Ser Glu Ser				
	130		135	140
Ala Cys Asn Ile Pro Ala Asp Met Ile His Tyr Gly Val Thr Lys Thr				
145	150		155	160
Ala Gln Leu Ser Leu Ala Arg Gly Leu Ala Lys Phe Val Ala Gly Ser				
	165		170	175
Gly Val Thr Val Asn Ser Val Leu Pro Gly Pro Thr Met Ser Asp Gly				
	180		185	190
Phe Ala Ala Met Met Lys Asp Glu Ile Glu Arg Thr Gly Lys Ser Leu				
	195		200	205
Glu Gln Leu Ala Lys Ala Phe Val Met Glu Asn Arg Pro Ser Ser Val				
	210		215	220
Ile Gln Arg Ala Ala Thr Val Glu Glu Val Ala Asn Met Val Val Tyr				
225	230		235	240
Val Cys Ser Met Gln Ala Ser Ala Thr Ser Gly Ala Ala Leu Arg Val				
	245		250	255
Asp Gly Gly Val Val Asp Asp Ile Val				
	260		265	

<210> 9277

<211> 748

<212> PRT

<213> Enterobacter cloacae

<400> 9277

Arg	Leu	Thr	Leu	Glu	Ser	Thr	Pro	Glu	Cys	Met	Leu	Arg	Leu	Met	Arg
1				5					10					15	
Lys	Leu	Ser	Leu	Pro	Glu	Thr	Ala	Met	Ser	Thr	Pro	Glu	Thr	Pro	Lys
			20					25					30		
Lys	Val	Pro	Gln	Phe	Ser	Ala	Leu	Lys	Leu	Ser	Pro	Val	Pro	Pro	Lys
		35					40					45			
Glu	Asp	Cys	Cys	Cys	Glu	Gly	Ala	Cys	Glu	Thr	Gln	Thr	Glu	Ala	Leu
	50					55					60				
Pro	Glu	Ser	Gly	Asn	Arg	Tyr	Ser	Trp	Val	Val	Asn	Gly	Met	Asp	Cys
65				70					75					80	
Ala	Ala	Cys	Ala	Arg	Lys	Val	Glu	Asn	Ala	Val	Lys	Gln	Val	Pro	Gly
				85				90					95		
Val	Asn	His	Val	Gln	Val	Leu	Phe	Ala	Thr	Glu	Lys	Leu	Leu	Val	Ser
			100					105					110		
Ala	Glu	Asn	Asp	Val	Ser	Arg	Gln	Val	Glu	Ala	Ala	Val	Ser	Lys	Ala
		115					120					125			
Gly	Tyr	Thr	Leu	Arg	Ser	Glu	Thr	Ala	Pro	Ala	Glu	Lys	Thr	Ser	Pro
	130					135					140				
Leu	Lys	Glu	Asn	Leu	Pro	Leu	Ile	Thr	Leu	Ile	Ile	Met	Met	Ala	Leu
145				150					155						160
Ser	Trp	Gly	Leu	Glu	Gln	Ile	Asn	His	Pro	Phe	Gly	Asn	Leu	Ala	Phe
				165					170					175	
Ile	Ala	Thr	Thr	Leu	Val	Gly	Leu	Phe	Pro	Ile	Ala	Arg	Gln	Ala	Leu
			180					185					190		
Arg	Leu	Met	Arg	Ser	Gly	Ser	Trp	Phe	Ala	Ile	Glu	Thr	Leu	Met	Ser
		195					200					205			
Val	Ala	Ala	Ile	Gly	Ala	Leu	Phe	Ile	Gly	Ala	Thr	Ala	Glu	Ala	Ala
	210					215					220				
Met	Val	Leu	Leu	Leu	Phe	Leu	Ile	Gly	Glu	Arg	Leu	Glu	Gly	Trp	Ala
225				230					235						240
Ala	Ser	Arg	Ala	Arg	Lys	Gly	Val	Ser	Ala	Leu	Met	Ala	Leu	Lys	Pro
				245					250					255	
Glu	Thr	Ala	Thr	Arg	Val	Ile	Asp	Gly	Gln	Arg	Glu	Thr	Val	Ala	Ile
			260					265					270		
Asn	Thr	Leu	Arg	Pro	Gly	Asp	Val	Ile	Glu	Val	Pro	Ala	Gly	Gly	Arg
		275					280					285			
Leu	Pro	Ala	Asp	Gly	Ala	Leu	Val	Thr	Ala	Thr	Ala	Ser	Phe	Asp	Glu
	290					295					300				
Ser	Ala	Leu	Thr	Gly	Glu	Ser	Ile	Pro	Val	Ala	Arg	Ala	Ala	Gly	Glu
305				310					315						320
Lys	Val	Pro	Ala	Gly	Ala	Thr	Ser	Val	Asp	Arg	Leu	Val	Gln	Leu	Thr
				325					330					335	
Val	Leu	Ser	Glu	Pro	Gly	Asp	Ser	Ala	Ile	Asp	Arg	Ile	Leu	Arg	Leu
			340					345					350		
Ile	Glu	Glu	Ala	Glu	Glu	Arg	Arg	Ala	Pro	Val	Glu	Arg	Phe	Ile	Asp
	355						360					365			
Arg	Phe	Ser	Arg	Ile	Tyr	Thr	Pro	Ala	Ile	Met	Leu	Val	Ala	Leu	Leu
	370					375					380				
Val	Thr	Val	Val	Pro	Pro	Leu	Cys	Phe	Gly	Ala	Pro	Trp	Glu	Gly	Trp
385				390					395						400
Ile	Tyr	Lys	Gly	Leu	Thr	Leu	Leu	Leu	Ile	Gly	Cys	Pro	Cys	Ala	Leu
				405					410					415	
Val	Ile	Ser	Thr	Pro	Ala	Ala	Ile	Thr	Ser	Gly	Leu	Ala	Ala	Ala	Ala
			420					425					430		
Arg	Arg	Gly	Ala	Leu	Ile	Lys	Gly	Gly	Ala	Ala	Leu	Glu	Gln	Leu	Ser
		435					440					445			
Gln	Ile	Arg	His	Val	Ala	Phe	Asp	Lys	Thr	Gly	Thr	Leu	Thr	Val	Gly

450	455	460
Lys Pro Gln Val Thr Gly	Val Tyr Pro Gln Asp	Val Ser Glu Asp Asp
465	470	475
Leu Leu Thr Leu Ala Ala	Val Glu Gln Gly Ser Thr His Pro Leu	
	485	490
Ala Gln Ala Ile Val Arg	Glu Ala Gln Ser Arg Gly Leu Asn Ile Pro	
	500	505
Pro Ala Thr Ala Gln Arg	Ala Leu Val Gly Ser Gly Ile Glu Ala Val	
	515	520
Val Glu Gly Lys Lys Val	Leu Ile Ala Ala Ala Asp Ser Arg Ser Thr	
	530	535
Pro Gln Val Glu Ala Leu	Glu Gln Ala Gly Gln Thr Val Val Ala Val	
545	550	555
Met Gln Asp Gly Val Pro	Met Gly Met Leu Ala Leu Arg Asp Thr Leu	
	565	570
Arg Asp Asp Ala Lys Asp	Ala Val Asp Ala Leu His Arg Leu Gly Val	
	580	585
Gln Gly Val Ile Leu Thr	Gly Asp Asn Pro Arg Ala Ala Ala Ile	
	595	600
Ala Gly Glu Leu Gly Leu	Ala Phe Lys Ala Gly Leu Pro Ala Asp	
	610	615
Lys Val Ser Ala Val Thr	Glu Leu Asn Ser Asn Ala Pro Leu Ala Met	
625	630	635
Val Gly Asp Gly Ile Asn	Asp Ala Pro Ala Met Lys Ala Ser Thr Ile	
	645	650
Gly Ile Ala Met Gly Ser	Gly Thr Asp Val Ala Leu Glu Thr Ala Asp	
	660	665
Ala Ala Leu Thr His Asn	Arg Leu Thr Gly Leu Ala Gln Met Ile Asp	
	675	680
Leu Ala Arg Ala Thr Arg	Ala Asn Ile Arg Gln Asn Ile Gly Ile Ala	
	690	695
Leu Gly Leu Lys Gly Ile	Phe Leu Val Thr Thr Leu Leu Gly Met Thr	
705	710	715
Gly Leu Trp Leu Ala Val	Leu Ala Asp Thr Gly Ala Thr Val Leu Val	
	725	730
Thr Ala Asn Ala Leu Arg	Leu Leu Arg Gln Arg	
	740	745

<210> 9278

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 9278

Gln Pro Val Phe Asn Leu Cys Gln Glu Arg Lys Met Gln Ala Leu Tyr
1 5 10 15
Leu Glu Ile Lys Asn Leu Ile Ile Ser Thr Leu Asn Leu Glu Leu
20 25 30
Thr Pro Glu Asp Ile Asp Thr Asp Ala Ala Leu Phe Gly Asp Gly Leu
35 40 45
Gly Leu Asp Ser Ile Asp Ala Leu Glu Leu Gly Leu Ala Val Lys Asn
50 55 60
Gln Tyr Gly Val Val Leu Ser Ala Glu Ser Asp Glu Met Arg Gln His
65 70 75 80
Phe Tyr Ser Val Ala Thr Leu Ala Ala Phe Ile His Gln Gln Arg Ala
85 90 95

<210> 9279

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 9279

```

Arg Pro Ala Pro Gly Ala Ala Val Gly Arg Gly Met Pro Asp Pro Ala
1      5      10      15
Gly Arg Ala Ala Val Ala Ala Ala Trp Arg Ala Ala Glu Gln Gln Arg
20      25      30
Ala Arg His Ala Ala Glu Thr Asp Ala Arg Arg Asp Pro Ser Arg Ser
35      40      45
Gln Arg Arg Ile Tyr Ala Ala Pro Arg Pro Pro Ala His Leu Ala Gly
50      55      60
Gln Pro Arg Gln Thr Ala Gly Pro Ala Arg Gly Ala Ala Val Val Asn
65      70      75      80
Pro Ala Ala Thr Gln Pro Gly Ala Glu Cys Arg Lys Arg Ser Ala Gly
85      90      95
Cys Arg Arg Ala Thr Gly Leu Gly Arg Phe Leu Leu Ala Ala Pro Gln
100     105     110
Trp Pro Gly Arg Ser Gly His Pro Arg Pro Pro Ala Lys Arg Arg
115     120     125

```

<210> 9280

<211> 181

<212> PRT

<213> Enterobacter cloacae

<400> 9280

```

Thr Gly Asp Pro Val Lys Leu Leu Arg Val Trp Arg Gln Gln Arg Gln
1      5      10      15
Pro Ser Ala Gly Glu Ser Met Met His Tyr Leu Pro Pro Gly Asp Tyr
20      25      30
Leu Pro His Asp Thr Pro Met Leu Leu Leu Glu Ser Val Glu Ser Val
35      40      45
Thr Asp Asp Arg Ala Val Cys Ser Val Thr Val Asn Glu Arg Gly Val
50      55      60
Leu Ala Pro Phe Leu Asp Ala Asp Gly Asn Leu Pro Gly Trp Phe Ala
65      70      75      80
Leu Glu Leu Met Ala Gln Thr Val Gly Val Trp Ser Glu Trp His Arg
85      90      95
Met Gln Lys Gly Leu Pro His Cys Ala Leu Gly Met Val Leu Gly Ala
100     105     110
Arg Glu Leu Val Cys Asp Ala Gly His Phe Ala Ala Gly Ser Thr Leu
115     120     125
Thr Ile Thr Ile Glu Arg Leu Met Gln Asp Glu Arg Phe Gly Ser Phe
130     135     140
Glu Cys Thr Ile His Ala Asp Ser Val Ser Leu Ala Thr Gly Arg Val
145     150     155     160
Asn Thr Phe Gln Pro Ser Glu Glu Glu Leu Thr Thr Leu Phe Asn Gln
165     170     175
Gly Thr Pro Ser
180

```

<210> 9281

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 9281

```

Thr Leu Gly Val Thr Met Tyr Gln Phe Val Leu Gly Lys Ile Ser Thr
1      5      10      15
Leu Ser Ala Asp Pro Leu Ala Ser Thr Leu Ala Asp Met Ala Pro Gln

```

```
<210> 9282
<211> 309
<212> PRT
<213> Enterobacter cloacae
```

<400> 9282															
Ile	Thr	Leu	Cys	Leu	Asn	Gln	Ile	His	Pro	Lys	Phe	Arg	Leu	Ile	Met
1				5					10					15	
His	Lys	Thr	Thr	Leu	Glu	Gln	Trp	Ala	Leu	Leu	Glu	Arg	Val	Ile	Glu
			20					25					30		
Ala	Gly	Ser	Phe	Ala	Lys	Ala	Ala	Glu	Glu	Thr	Tyr	Arg	Ser	Gln	Ser
		35					40					45			
Ser	Val	Ser	Tyr	Asn	Leu	Ser	Leu	Leu	Gln	Glu	Arg	Leu	Gly	Val	Ala
	50					55					60				
Leu	Leu	Met	Thr	Glu	Gly	Arg	Arg	Ala	Val	Leu	Thr	Pro	Ala	Gly	Glu
65				70						75					80
Leu	Leu	Leu	Asn	Gln	Val	Lys	Pro	Leu	Leu	Lys	Ala	Phe	Ala	Tyr	Val
				85					90					95	
Glu	Thr	Arg	Ala	Ala	Thr	Leu	Arg	Ser	Gly	Met	Arg	Thr	Arg	Ile	Asp
			100					105					110		
Leu	Met	Val	Asp	Ser	Ile	Phe	Pro	Arg	Ser	Arg	Leu	Phe	Ala	Ile	Leu
		115					120					125			
Arg	Gln	Phe	Gln	Gln	Leu	Tyr	Pro	Gln	Thr	Gln	Val	Arg	Leu	Thr	Glu
	130					135					140				
Val	Leu	Glu	Asn	Ser	Arg	Ala	Asp	Ala	Leu	Asn	Asp	Glu	Ala	Asp	Val
145				150						155					160
Met	Val	Leu	Thr	Arg	Arg	Gln	Asp	Ile	Thr	Gly	Leu	Gly	Glu	Trp	Leu
				165					170					175	
Met	Asn	Ile	Asp	Phe	Val	Ala	Val	Ala	His	His	Ala	His	Pro	Leu	Phe
			180					185					190		
Ser	Leu	Asp	Thr	Pro	Leu	Asn	Asp	Glu	Met	Leu	Arg	Pro	Trp	Pro	Arg
		195					200					205			
Ile	Gln	Ile	Ala	Asp	Ser	Gln	Pro	Thr	Thr	His	Pro	Thr	Gly	Glu	Ser
	210					215					220				
Trp	Thr	Phe	Ser	Thr	Ile	Asp	Ala	Ala	Ile	Glu	Ala	Val	Met	Tyr	Gln
225				230						235					240
Val	Gly	Tyr	Gly	Trp	Leu	Pro	Glu	Glu	Arg	Ile	Gln	Thr	Pro	Leu	Gln

245 250 255
 Gln Gly Ile Leu Lys Thr Leu Pro Leu Ser His Gly Val Arg Arg Ala
 260 265 270
 Thr Pro Leu His Leu Ile Val Lys Arg Ser Leu Ser Pro Leu Asp Glu
 275 280 285
 Gln Val Glu Thr Leu Leu Arg Leu Phe Lys Gln Glu Pro Ser Ser Ser
 290 295 300
 Thr Ala Thr Leu
 305

<210> 9283

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 9283

Gly Glu Ala Phe Ala Tyr Ala Leu Asn Gln Trp Asp Ala Leu Cys Tyr
 1 5 10 15
 Tyr Cys Asp Asp Gly Leu Ala Glu Pro Asp Asn Asn Ala Ala Glu Arg
 20 25 30
 Ala Leu Arg Ala Val Cys Leu Gly Lys Lys Asn Tyr Ile Phe Phe Gly
 35 40 45
 Ser Asp His Gly Gly Glu Arg Gly Ala Leu Leu Tyr Gly Leu Ile Gly
 50 55 60
 Thr Cys Arg Leu Asn Gly Ile Asp Pro Glu Gly Tyr Leu Arg His Ile
 65 70 75 80
 Leu Ser Val Leu Pro Glu Trp Pro Ile Asn Lys Val Ala Glu Leu Leu
 85 90 95
 Pro Trp Asn Val Asp Leu Thr Asn Lys
 100 105

<210> 9284

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 9284

Leu Phe Gly Tyr Val Asn Thr Gly Asp Pro Thr Met Lys Lys Ile Leu
 1 5 10 15
 Val Ser Phe Val Ala Ile Met Ala Ala Ser Ser Ala Met Ala Ala
 20 25 30
 Glu Thr Met Asn Met His Asp Gln Val Asn Asn Ala Gln Ala Pro Ala
 35 40 45
 His Gln Met Gln Ser Ser Ala Glu Lys Ser Ala Ile Gln Gly Asp Ser
 50 55 60
 Met Thr Met Met Asp Met Ser Ser His Asp Gln Ala Ala Met Ser His
 65 70 75 80
 Asp Met Met Gln Asn Ser Asn Ser Ala Ala His Gln Asp Met Ala Glu
 85 90 95
 Met His Lys Lys Met Met Lys Ala Lys Pro Gly Ala Thr Asn Glu Thr
 100 105 110
 Ala Lys Ser Phe Ser Glu Met Ser Glu His Glu Lys Ala Ala Ala Val
 115 120 125
 His Glu Lys Ala Asn Asn Gly Gln Ser Ser Val Val His Gln Gln Gln
 130 135 140
 Ala Asp Lys His Arg Ser Gln Ile Thr Gln Asn
 145 150 155

<210> 9285

<211> 233

<212> PRT

<213> Enterobacter cloacae

<400> 9285

Gly Thr Ile Cys Pro Arg Gly Leu Thr Met Ile Arg Phe Glu His Val
 1 5 10 15
 Ser Lys Ala Tyr Leu Gly Gly Arg Gln Ala Leu Gln Gly Val Thr Phe
 20 25 30
 His Leu Gln Pro Gly Glu Met Ala Phe Leu Thr Gly His Ser Gly Ala
 35 40 45
 Gly Lys Ser Thr Leu Leu Lys Leu Ile Cys Gly Ile Glu Arg Pro Ser
 50 55 60
 Ala Gly Lys Ile Trp Phe Ser Gly His Glu Ile Ser Arg Leu Lys Asn
 65 70 75 80
 Arg Glu Val Pro Phe Leu Arg Arg Gln Ile Gly Met Ile Phe Gln Asp
 85 90 95
 His His Leu Leu Met Asp Arg Thr Val Phe Asp Asn Val Ala Ile Pro
 100 105 110
 Leu Ile Ile Ala Gly Ala Ser Tyr Asp Asp Ile Arg Arg Arg Val Ser
 115 120 125
 Ala Ala Leu Asp Lys Val Gly Leu Leu Asp Lys Ala Lys Asn Phe Pro
 130 135 140
 Ile Gln Leu Ser Gly Gly Glu Gln Gln Arg Val Gly Ile Ala Arg Ala
 145 150 155 160
 Val Val Asn Lys Pro Ala Val Leu Leu Ala Asp Glu Pro Thr Gly Asn
 165 170 175
 Leu Asp Asp Ala Leu Ser Glu Gly Ile Leu Arg Leu Phe Glu Glu Phe
 180 185 190
 Asn Arg Val Gly Val Thr Val Leu Met Ala Thr His Asp Met Gly Leu
 195 200 205
 Ile Ser Arg Arg Ser Tyr Arg Met Leu Thr Leu Ser Asp Gly His Leu
 210 215 220
 His Gly Gly His Gly Glu Gln Ala
 225 230

<210> 9286

<211> 448

<212> PRT

<213> Enterobacter cloacae

<400> 9286

Arg Pro Leu Trp Arg Ile Pro Cys Pro Trp Gln Thr Leu Thr Asp Ala
 1 5 10 15
 Leu Ser Arg Arg Leu Ser Glu Gly Asp Arg Val Lys Asn Asn Glu Leu
 20 25 30
 Asn Asp Arg Arg Leu Gln Ala Thr Pro Arg Gly Ile Gly Val Met Cys
 35 40 45
 Asn Phe Tyr Ala Asp Lys Ala Glu Asn Ala Thr Val Trp Asp Val Glu
 50 55 60
 Gly Asn Glu Tyr Ile Asp Phe Ala Ala Gly Ile Ala Val Leu Asn Thr
 65 70 75 80
 Gly His Arg His Pro Lys Val Ile Ala Ala Val Glu Lys Gln Leu His
 85 90 95
 Ala Phe Thr His Thr Ala Tyr Gln Ile Val Pro Tyr Glu Gly Tyr Val
 100 105 110
 Ser Leu Ala Glu Arg Ile Asn Gln Arg Val Pro Ile Glu Gly Pro Ala
 115 120 125
 Lys Thr Ala Phe Phe Ser Thr Gly Ala Glu Ala Val Glu Asn Ala Val
 130 135 140
 Lys Ile Ala Arg Ala Tyr Thr Arg Arg Ser Gly Leu Ile Thr Phe Gly
 145 150 155 160
 Gly Ala Phe His Gly Arg Thr Phe Met Thr Met Ala Leu Thr Gly Lys


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<210> 9287
<211> 112
<212> PRT
<213> Enterobacter cloacae
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<210> 9288
<211> 366
<212> PRT
<213> Enterobacter cloacae
```

<400> 9288

Arg Asp Ala Ser Leu Thr Gly Pro Arg Phe Leu Leu Cys Ala Trp Cys
 1 5 10 15
 Phe Val Phe Leu Lys Gly Leu Ser Met Ser Ala Ala His Leu Gly Phe
 20 25 30
 Pro Thr Glu Thr Val Val Val Phe Val Val Met Ala Val Gly Ala Met
 35 40 45
 Phe Ile Asp Leu Phe Met His Arg His Asp Lys Pro Ile Ser Leu Lys
 50 55 60
 Ser Ala Val Met Trp Ser Ile Phe Trp Val Met Ala Met Ala Phe
 65 70 75 80
 Ala Gly Phe Leu Tyr Val His His Gly Ala Glu Met Ala Ser Leu Phe
 85 90 95
 Leu Thr Gly Tyr Ala Leu Glu Glu Val Leu Ser Val Asp Asn Leu Phe
 100 105 110
 Val Met Met Ala Ile Phe Ala Trp Phe Gly Val Pro Asp Arg Tyr Arg
 115 120 125
 His Arg Val Leu Tyr Trp Gly Val Leu Gly Ala Ile Val Phe Arg Gly
 130 135 140
 Ile Phe Val Ala Ile Gly Thr Ser Leu Leu Ser Leu Gly Pro Tyr Val
 145 150 155 160
 Glu Val Ile Phe Ala Leu Val Val Gly Trp Thr Ala Val Met Met Leu
 165 170 175
 Lys Arg Asn Glu Glu Ser Asp Glu Val Glu Asp Tyr Ser Asn His Leu
 180 185 190
 Ala Tyr Arg Leu Val Lys Arg Phe Tyr Pro Val Trp Pro Lys Ile Ser
 195 200 205
 Ser His Ala Phe Ile Leu Thr Gln Lys Glu Val Asp Ala Glu Leu Glu
 210 215 220
 Lys Pro Glu Asn Lys Asp Val Met Val Gly Arg Val Lys Lys Ala Lys
 225 230 235 240
 Arg Tyr Ala Thr Pro Leu Leu Leu Cys Val Ala Val Val Glu Leu Ser
 245 250 255
 Asp Val Met Phe Ala Phe Asp Ser Val Pro Ala Ile Ile Ala Val Ser
 260 265 270
 Arg Glu Pro Leu Ile Ile Tyr Ser Ala Met Met Phe Ala Ile Leu Gly
 275 280 285
 Leu Arg Thr Leu Tyr Phe Val Leu Glu Ala Leu Lys Gln Tyr Leu Val
 290 295 300
 His Leu Glu Lys Ala Val Val Leu Leu Leu Phe Phe Val Ala Phe Lys
 305 310 315 320
 Leu Gly Leu Asn Ala Thr Asp His Phe Trp His His Gly Tyr Asn Ile
 325 330 335
 Gly Ala Thr Ala Ser Leu Phe Val Val Leu Gly Val Leu Ala Leu Gly
 340 345 350
 Ile Ile Ala Ser Val Met Phe Pro Gly Lys Arg Glu Ala
 355 360 365

<210> 9289

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 9289

Arg Gly Thr Ile Val Ser Ser Lys Gln Arg Arg His Arg Met Ser Thr
 1 5 10 15
 Phe Asp Lys His Asp Leu Ser Gly Phe Val Gly Lys His Leu Val Tyr
 20 25 30
 Thr Tyr Asp Asn Gly Trp Asn Tyr Glu Ile Tyr Val Lys Asn Glu Asn
 35 40 45

Thr Leu Asp Tyr Arg Ile His Ser Gly Leu Val Gly Asn Arg Trp Val
 50 55 60
 Lys Asp Gln Gln Ala Tyr Ile Val Arg Val Gly Glu Ser Ile Tyr Lys
 65 70 75 80
 Ile Ser Trp Thr Glu Pro Thr Gly Thr Asp Val Ser Leu Ile Val Asn
 85 90 95
 Leu Gly Asp Arg Leu Phe His Gly Thr Ile Phe Phe Pro Arg Trp Val
 100 105 110
 Met Asn Asn Pro Glu Lys Thr Val Cys Phe Gln Asn Asp His Ile Pro
 115 120 125
 Leu Met Asn Ser Tyr Arg Asp Ala Gly Pro Ala Tyr Pro Thr Glu Val
 130 135 140
 Ile Asp Glu Phe Ala Ala Ile Thr Phe Val Arg Asp Cys Gly Ala Asn
 145 150 155 160
 Asp Asp Ser Val Ile Asn Cys Ala Ala Ser Glu Leu Pro Ala Asn Phe
 165 170 175
 Pro Glu Asn Leu Lys
 180

<210> 9290

<211> 82

<212> PRT

<213> Enterobacter cloacae

<400> 9290

Thr Ala Val Thr Gly His Ser Arg Ala Val Asn Ala Leu Arg Pro Ser
 1 5 10 15
 Ser Trp Gln Thr Arg Ser Ile Arg Arg Met Pro His Asn Pro Phe Thr
 20 25 30
 Ser Cys Cys Cys Ala Gln Cys Cys Glu Arg Arg Arg Ile Ser Arg Glu
 35 40 45
 Gly Met Arg Gly Ser Met Leu Arg Asn Arg Arg Val Cys Ile Asn Glu
 50 55 60
 Met Arg Thr Leu Ser Phe Arg Ala Ser Lys Trp Asp Thr Pro Ser Gly
 65 70 75 80
 Gly

<210> 9291

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 9291

Arg Gly Val Asn Tyr Ser Arg Phe Tyr Leu Asn Glu Lys Lys Met Thr
 1 5 10 15
 Asp Leu Phe Ser Ser Pro Asp His Thr Leu Asp Ala Gln Gly Leu Arg
 20 25 30
 Cys Pro Glu Pro Val Met Met Val Arg Lys Thr Val Arg Asn Met Gln
 35 40 45
 Ser Gly Glu Thr Leu Leu Ile Val Ala Asp Asp Pro Ala Thr Thr Arg
 50 55 60
 Asp Ile Pro Gly Phe Cys Thr Phe Met Glu His Glu Leu Val Ala Gln
 65 70 75 80
 Gln Thr Glu Thr Leu Pro Tyr Arg Tyr Leu Ile Arg Lys Gly
 85 90 95

<210> 9292

<211> 334

<212> PRT

<213> Enterobacter cloacae

<400> 9292

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Arg Leu Ser His Tyr Pro Gly Val Asp Leu Met Lys Thr Thr Leu Lys
1      5      10      15
Pro Leu Leu Ala Ala Leu Cys Leu Thr Ala Phe Ala Cys Thr Val Ser
20      25      30
Ala Gln Thr Ile Lys Ala Ala Asp Val His Pro Glu Gly Tyr Pro Asn
35      40      45
Val Val Ala Val Gln His Met Gly Glu Lys Leu Lys Gln Gln Thr Asp
50      55      60
Gly Lys Leu Glu Ile Lys Val Phe Pro Gly Gly Val Leu Gly Asp Glu
65      70      75
Lys Gln Met Ile Glu Gln Ala Gln Met Gly Ala Ile Asp Met Ile Arg
85      90      95
Val Ser Met Ala Pro Val Ala Ala Ile Leu Pro Asp Ile Glu Val Phe
100     105     110
Thr Leu Pro Tyr Val Phe Arg Asp Glu Asp His Met His Lys Val Ile
115     120     125
Asp Gly Asp Ile Gly Lys Gln Ile Gly Asp Lys Leu Thr Ala Asn Pro
130     135     140
Lys Ser Arg Leu Val Phe Leu Gly Trp Met Asp Ser Gly Thr Arg Asn
145     150     155
Leu Ile Thr Lys Glu Pro Ile Val Lys Pro Asp Asp Leu Lys Gly Lys
165     170     175
Lys Ile Arg Val Gln Gly Ser Pro Val Ala Leu Ala Thr Leu Lys Ala
180     185     190
Met Gly Ala Asn Ser Val Ala Met Gly Val Ser Glu Val Tyr Ser Gly
195     200     205
Met Gln Thr Gly Val Ile Asp Gly Ala Glu Asn Asn Pro Pro Thr Phe
210     215     220
Ile Ala His Asn Tyr Met Pro Val Ala Lys Asn Tyr Thr Leu Ser Gly
225     230     235
His Phe Ile Thr Pro Glu Met Leu Leu Tyr Ser Lys Val Lys Trp Asp
245     250     255
Lys Leu Ser Ala Asp Glu Gln Gln Lys Ile Leu Thr Leu Ala Arg Glu
260     265     270
Ala Gln Phe Glu Gln Arg Lys Leu Trp Asn Ala Tyr Asn Asp Gln Ala
275     280     285
Leu Ala Lys Met Lys Ala Gly Gly Val Gln Phe His Asp Ile Asp Lys
290     295     300
Thr Val Phe Ile Lys Ala Thr Glu Pro Val Arg Ala Gln Tyr Gly Asp
305     310     315
Lys His Gln Asp Leu Met Lys Ala Ile Ala Asp Val Gln
325     330

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<210> 9293

<211> 174

<212> PRT

<213> *Enterobacter cloacae*

<400> 9293

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Ala Gly Val Arg Met Ser Glu Leu Tyr Leu Lys Trp Met Asp Arg Leu
1      5      10      15
Tyr Leu Leu Ala Met Val Val Ala Gly Leu Ser Leu Leu Val Met Thr
20      25      30
Ile Val Ile Pro Ile Gly Ile Phe Ser Arg Tyr Val Leu Asn Arg Gly
35      40      45
Glu Ser Trp Pro Glu Pro Ile Ala Ile Ile Cys Met Val Thr Phe Thr
50      55      60
Phe Ile Gly Ala Ala Val Ser Tyr Arg Ala Gly Ser His Ile Ala Val
65      70      75      80

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Asn	Met	Leu	Thr	Asp	Arg	Leu	Pro	Ala	Ser	Leu	Gln	Arg	Val	Cys	Ala
				85					90					95	
Arg	Val	Val	Asp	Leu	Leu	Met	Leu	Leu	Ile	Ser	Gly	Leu	Met	Cys	Trp
			100					105					110		
Tyr	Ser	Tyr	Trp	Leu	Cys	Val	Glu	Leu	Trp	Glu	Gln	Pro	Val	Ala	Glu
		115					120					125			
Phe	Pro	Leu	Leu	Thr	Ser	Gly	Glu	Ser	Tyr	Leu	Pro	Leu	Pro	Val	Gly
	130					135					140				
Ser	Ala	Ile	Leu	Ile	Leu	Phe	Val	Leu	Glu	Arg	Leu	Leu	Phe	Gly	Ser
145					150					155					160
Gln	Glu	Asn	Arg	Pro	Val	Val	Leu	Ile	Gly	Asn	His	Ser			
				165					170						

<210> 9294

<211> 489

<212> PRT

<213> Enterobacter cloacae

<400> 9294

Ser	Gln	Met	Ala	Lys	Gln	Lys	Lys	Arg	Gly	Phe	Phe	Ser	Trp	Leu	Gly
1				5					10					15	
Phe	Gly	Glu	Lys	Glu	Gln	Glu	Thr	Glu	Gln	Lys	Thr	Glu	Glu	Gln	Gln
			20					25					30		
Val	Val	Glu	Glu	Gln	Ser	Gln	Pro	Glu	Thr	Pro	Val	Glu	Thr	Ala	Ala
		35					40					45			
Val	Val	Glu	Ala	Glu	Glu	Pro	Ala	His	Ser	Lys	Glu	Glu	Ile	Glu	Ser
		50				55					60				
Phe	Ala	Glu	Glu	Val	Val	Glu	Val	Thr	Glu	Gln	Val	Gln	Glu	Ser	Glu
65				70					75						80
Lys	Pro	Glu	Pro	Val	Ile	Val	Glu	Thr	Leu	Thr	Glu	Ala	Pro	Gln	Ala
				85					90					95	
Ala	Ile	Glu	His	Glu	Ala	Leu	Pro	Leu	Pro	Glu	Glu	Val	Lys	Ala	Glu
			100				105						110		
Glu	Val	Ser	Ala	Glu	Glu	Trp	Gln	Ala	Glu	Ala	Glu	Thr	Val	Glu	Ile
		115					120					125			
Val	Glu	Ala	Val	Glu	Glu	Glu	Ala	Ala	Leu	Glu	Pro	Glu	Leu	Thr	Asp
	130					135					140				
Glu	Glu	Leu	Glu	Ala	Gln	Ala	Leu	Ala	Ala	Glu	Ala	Ala	Glu	Glu	Ala
145				150						155					160
Val	Ile	Val	Val	Pro	Val	Glu	Glu	Gln	Ala	Glu	Glu	Glu	Ile	Val	Gln
				165				170						175	
Glu	Gln	Glu	Lys	Pro	Thr	Lys	Glu	Gly	Phe	Phe	Ala	Arg	Leu	Lys	Arg
			180					185					190		
Ser	Leu	Leu	Lys	Thr	Lys	Glu	Asn	Leu	Gly	Ser	Gly	Phe	Ile	Ser	Leu
		195				200						205			
Phe	Arg	Gly	Lys	Lys	Ile	Asp	Asp	Asp	Leu	Phe	Glu	Glu	Leu	Glu	Glu
	210					215					220				
Gln	Leu	Leu	Ile	Ala	Asp	Val	Gly	Val	Glu	Thr	Thr	Arg	Lys	Ile	Ile
225				230						235					240
Ala	Asn	Leu	Thr	Glu	Gly	Ala	Ser	Arg	Lys	Gln	Leu	Arg	Asp	Ala	Glu
			245						250					255	
Ala	Leu	Tyr	Gly	Leu	Leu	Lys	Asp	Glu	Met	Gly	Glu	Ile	Leu	Ala	Lys
		260						265					270		
Val	Asp	Glu	Pro	Leu	Asn	Ile	Glu	Gly	Lys	Met	Pro	Phe	Val	Ile	Leu
	275						280					285			
Met	Val	Gly	Val	Asn	Gly	Val	Gly	Lys	Thr	Thr	Thr	Ile	Gly	Lys	Leu
	290					295					300				
Ala	Arg	Gln	Phe	Glu	Gln	Gln	Gly	Lys	Ser	Val	Met	Leu	Ala	Ala	Gly
305				310						315					320
Asp	Thr	Phe	Arg	Ala	Ala	Ala	Val	Glu	Gln	Leu	Gln	Val	Trp	Gly	Gln
				325					330					335	

Arg Asn Asn Ile Pro Val Ile Ala Gln His Thr Gly Ala Asp Ser Ala
 340 345 350
 Ser Val Ile Phe Asp Ala Ile Gln Ala Ala Lys Ser Arg Asn Val Asp
 355 360 365
 Val Leu Ile Ala Asp Thr Ala Gly Arg Leu Gln Asn Lys Ser His Leu
 370 375 380
 Met Glu Glu Leu Lys Lys Ile Val Arg Val Met Lys Lys Leu Asp Glu
 385 390 395 400
 Asp Ala Pro His Glu Ile Met Leu Thr Ile Asp Ala Ser Thr Gly Gln
 405 410 415
 Asn Ala Ile Ser Gln Ala Lys Leu Phe His Glu Ala Val Gly Leu Thr
 420 425 430
 Gly Ile Thr Leu Thr Lys Leu Asp Gly Thr Ala Lys Gly Gly Val Ile
 435 440 445
 Phe Ser Val Ala Asp Gln Phe Gly Ile Pro Ile Arg Tyr Ile Gly Val
 450 455 460
 Gly Glu Arg Ile Glu Asp Leu Arg Pro Phe Lys Ala Asp Asp Phe Ile
 465 470 475 480
 Glu Ala Leu Phe Ala Arg Glu Asp
 485

<210> 9295

<211> 361

<212> PRT

<213> Enterobacter cloacae

<400> 9295

Ala Met Gly Ile Cys Thr Glu Ala Thr Val Asn Lys Arg Asp Ala Met
 1 5 10 15
 Asn Gln Ile Arg Gln Phe Ser Asn Arg Phe Asp Arg Phe Arg Lys Pro
 20 25 30
 Gln Gly Gly Gly Asp Gly Asn Arg Asn Ala Pro Lys Arg Ala Lys Ala
 35 40 45
 Thr Pro Lys Pro Asn Ser Arg Lys Thr Asn Val Phe Asn Glu Gln Val
 50 55 60
 Arg Tyr Ala Phe Gln Gly Ala Leu Gln Asp Leu Lys Ser Lys Pro Leu
 65 70 75 80
 Ala Thr Phe Leu Thr Val Met Val Ile Ala Ile Ser Leu Thr Leu Pro
 85 90 95
 Ser Val Cys Tyr Met Val Tyr Lys Asn Val Asn Gln Ala Ala Ser Gln
 100 105 110
 Tyr Tyr Pro Ser Pro Gln Ile Thr Val Tyr Leu Asp Lys Ala Leu Asp
 115 120 125
 Asp Asn Ala Ala Ala Gln Val Val Gly Gln Ile Gln Ala Glu Gln Gly
 130 135 140
 Val Glu Lys Val Asn Tyr Leu Ser Arg Asp Glu Ala Leu Gly Glu Phe
 145 150 155 160
 Arg Asn Trp Ser Gly Phe Gly Gly Ala Leu Asp Met Leu Glu Glu Asn
 165 170 175
 Pro Leu Pro Ala Val Ala Val Val Ile Pro Lys Leu Asp Phe Gln Gly
 180 185 190
 Thr Asp Ser Leu Asn Thr Leu Arg Asp Arg Ile Thr Arg Ile Asn Gly
 195 200 205
 Ile Asp Glu Val Arg Met Asp Asp Ser Trp Phe Ala Arg Leu Ala Ala
 210 215 220
 Leu Thr Gly Leu Val Gly Arg Val Ser Ala Met Ile Gly Val Leu Met
 225 230 235 240
 Val Ala Ala Val Phe Leu Val Ile Gly Asn Ser Val Arg Leu Ser Ile
 245 250 255
 Phe Ala Arg Arg Asp Thr Ile Asn Val Gln Lys Leu Ile Gly Ala Thr
 260 265 270

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<210> 9296
<211> 430
<212> PRT
<213> Enterobacter cloacae
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Thr	Met	Asp	Ala	Phe	Val	Leu	Leu	Phe	Thr	Leu	Ala	Ile	Leu	Leu	Ala
1				5					10					15	
Leu	Gly	Met	Pro	Val	Ala	Phe	Ala	Val	Gly	Leu	Ser	Ala	Val	Ala	Gly
			20					25					30		
Ala	Leu	Trp	Ile	Asp	Leu	Pro	Leu	Glu	Ala	Leu	Met	Ile	Gln	Ile	Thr
		35					40					45			
Ser	Gly	Val	Asn	Lys	Phe	Thr	Leu	Leu	Ala	Ile	Pro	Phe	Phe	Ile	Leu
	50					55					60				
Ala	Gly	Ala	Ile	Met	Ala	Glu	Gly	Gly	Ile	Ala	Arg	Arg	Leu	Val	Asn
					70					75					80
Phe	Ala	Tyr	Val	Phe	Val	Gly	Phe	Ile	Arg	Gly	Gly	Leu	Ser	Leu	Val
				85					90					95	
Asn	Ile	Val	Ala	Ser	Thr	Phe	Phe	Gly	Ala	Ile	Ser	Gly	Ser	Ser	Val
			100					105					110		
Ala	Asp	Thr	Ala	Ser	Ile	Gly	Ser	Val	Met	Ile	Pro	Glu	Met	Glu	Lys
		115					120					125			
Lys	Gly	Tyr	Pro	Arg	Glu	Tyr	Ala	Ala	Ala	Val	Thr	Ala	Ser	Gly	Ser
	130					135						140			
Val	Gln	Ala	Ile	Leu	Ile	Pro	Pro	Ser	His	Asn	Ser	Val	Ile	Tyr	Ser
	145				150					155					160
Leu	Ala	Ala	Gly	Gly	Thr	Val	Ser	Ile	Ala	Thr	Leu	Phe	Ile	Ala	Gly
				165					170					175	
Val	Leu	Pro	Gly	Leu	Leu	Leu	Gly	Val	Ser	Leu	Met	Val	Leu	Cys	Leu
			180					185					190		
Cys	Phe	Ala	Arg	Lys	Arg	Gly	Tyr	Pro	Lys	Gly	Asp	Lys	Ile	Pro	Phe
	195						200					205			
Arg	Gln	Ala	Leu	Lys	Ile	Met	Leu	Asp	Ala	Leu	Trp	Gly	Leu	Met	Thr
	210					215					220				
Val	Val	Ile	Ile	Leu	Gly	Gly	Ile	Leu	Ser	Gly	Ile	Phe	Thr	Ala	Thr
	225				230					235					240
Glu	Ser	Ala	Ala	Val	Ala	Cys	Leu	Trp	Ala	Phe	Phe	Val	Thr	Met	Phe
				245					250					255	
Ile	Tyr	Arg	Asp	Tyr	Lys	Trp	Ser	Glu	Leu	Pro	Lys	Leu	Met	Cys	Arg
			260					265					270		
Thr	Val	Lys	Thr	Val	Thr	Ile	Val	Met	Ile	Leu	Ile	Gly	Phe	Ala	Ala
		275					280					285			
Ala	Phe	Gly	Ala	Val	Met	Thr	Tyr	Met	Gln	Leu	Pro	Met	Arg	Ile	Thr
	290					295					300				
Glu	Phe	Phe	Thr	Ser	Leu	Ser	Asp	Asn	Lys	Tyr	Val	Ile	Leu	Met	Tyr
	305				310					315					320
Leu	Asn	Ile	Met	Leu	Leu	Leu	Ile	Gly	Thr	Leu	Met	Asp	Met	Ala	Pro
				325					330					335	

Ile Ile Leu Ile Leu Thr Pro Val Leu Leu Pro Val Thr Asn Ser Leu
 340 345 350
 Gly Ile Asp Pro Val His Phe Gly Met Ile Met Met Val Asn Leu Gly
 355 360 365
 Ile Gly Leu Ile Thr Pro Pro Val Gly Ser Val Leu Phe Val Ala Ser
 370 375 380
 Ala Val Ser Lys Gln Lys Ile Glu His Val Val Arg Ala Met Leu Pro
 385 390 395 400
 Phe Tyr Gly Met Leu Leu Val Val Leu Gly Met Val Thr Tyr Ile Pro
 405 410 415
 Ala Ile Ser Leu Trp Leu Pro Gly Leu Leu Gly Met Gln
 420 425 430

<210> 9297

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 9297

Trp Asp Phe Ser Met Ser Lys Met Pro Leu Phe Phe Ile Ile Val Val
 1 5 10 15
 Ala Ile Ile Val Ile Ala Ala Ser Phe Arg Phe Val Gln Gln Arg Arg
 20 25 30
 Glu Lys Ala Asp Asn Asp Ala Ala Pro Leu Met Gln Lys Arg Val Val
 35 40 45
 Val Thr Asn Lys Arg Glu Lys Pro Leu Asn Asp Arg Arg Ser Arg Gln
 50 55 60
 Gln Gln Val Thr Pro Ala Gly Thr Thr Met Arg Tyr Glu Ala Ser Phe
 65 70 75 80
 Lys Pro Glu Thr Gly Gly Leu Glu Met Thr Phe Arg Leu Glu Ala Gln
 85 90 95
 Gln Tyr His Gln Leu Thr Val Gly Glu Lys Gly Thr Leu Ser Tyr Lys
 100 105 110
 Gly Ser Arg Phe Val Gly Phe Arg Ala Glu
 115 120

<210> 9298

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 9298

Met Thr Lys Glu Met Gln Thr Leu Ala Leu Ala Pro Val Gly Asn Leu
 1 5 10 15
 Glu Ser Tyr Ile Arg Ala Ala Asn Thr Trp Pro Met Leu Thr Ala Glu
 20 25 30
 Glu Glu Lys Glu Leu Ala Glu Lys Leu His Tyr Gln Gly Asp Leu Glu
 35 40 45
 Ala Ala Lys Thr Leu Ile Leu Ser His Leu Arg Phe Val Val His Val
 50 55 60
 Ala Arg Asn Tyr Ala Gly Tyr Gly Leu Pro Gln Ala Asp Leu Ile Gln
 65 70 75 80
 Glu Gly Asn Ile Gly Leu Met Lys Ala Val Arg Arg Phe Asn Pro Glu
 85 90 95
 Val Gly Val Arg Leu Val Ser Phe Ala Val His Trp Ile Lys Ala Glu
 100 105 110
 Ile His Glu Tyr Val Leu Arg Asn Trp Arg Ile Val Lys Val Ala Thr
 115 120 125
 Thr Lys Ala Gln Arg Lys Leu Phe Phe Asn Leu Arg Lys Thr Lys Gln
 130 135 140
 Arg Leu Gly Trp Phe Asn Gln Asp Glu Val Glu Met Val Ala Arg Glu

145					150					155				160	
Leu	Gly	Val	Ser	Ser	Lys	Asp	Val	Arg	Glu	Met	Glu	Ser	Arg	Met	Ala
				165					170					175	
Ala	Gln	Asp	Met	Thr	Phe	Asp	Met	Ser	Ala	Asp	Asp	Asp	Ala	Ser	Asp
			180					185					190		
Ser	Gln	Pro	Met	Ala	Pro	Val	Leu	Tyr	Leu	Gln	Asp	Lys	Thr	Ser	Asn
		195					200					205			
Phe	Ala	Asp	Gly	Ile	Glu	Glu	Asp	Asn	Trp	Glu	Asp	Gln	Ala	Ala	Asn
	210					215				220					
Lys	Leu	Thr	Phe	Ala	Met	Glu	Gly	Leu	Asp	Glu	Arg	Ser	Gln	Asp	Ile
225					230					235					240
Ile	Arg	Ala	Arg	Trp	Leu	Asp	Glu	Asp	Asn	Lys	Ser	Thr	Leu	Gln	Glu
				245					250					255	
Leu	Ala	Asp	Arg	Tyr	Gly	Val	Ser	Ala	Glu	Arg	Val	Arg	Gln	Leu	Glu
			260					265					270		
Lys	Asn	Ala	Met	Lys	Lys	Leu	Arg	Ala	Ala	Ile	Glu	Ala			
		275					280					285			

<210> 9299

<211> 388

<212> PRT

<213> Enterobacter cloacae

<400> 9299

Asn	Lys	Ala	Leu	His	Asn	Asn	Ile	Thr	Thr	Ile	Val	Ile	Thr	Ile	Ile
1				5					10					15	
Met	Gly	Asn	Leu	Arg	Met	Asn	Met	Lys	Gly	Lys	Ala	Leu	Leu	Ala	Gly
			20					25					30		
Cys	Ile	Ala	Leu	Ala	Phe	Ser	Ala	Met	Ala	Gln	Ala	Asp	Ile	Lys	Val
		35					40					45			
Ala	Val	Val	Gly	Ala	Met	Ser	Gly	Pro	Val	Ala	Gln	Tyr	Gly	Asp	Gln
		50				55					60				
Glu	Phe	Thr	Gly	Ala	Glu	Gln	Ala	Val	Ala	Asp	Ile	Asn	Ala	Lys	Gly
65					70					75					80
Gly	Ile	Lys	Gly	Glu	Lys	Leu	Gln	Ile	Val	Lys	Tyr	Asp	Asp	Ala	Cys
				85					90					95	
Asp	Pro	Lys	Gln	Ala	Val	Ala	Val	Ala	Asn	Lys	Val	Val	Asn	Asp	Gly
			100					105					110		
Ile	Lys	Tyr	Val	Ile	Gly	His	Leu	Cys	Ser	Ser	Ser	Thr	Gln	Pro	Ala
		115					120						125		
Ser	Asp	Ile	Tyr	Glu	Asp	Glu	Gly	Ile	Leu	Met	Ile	Thr	Pro	Ala	Ala
		130				135					140				
Thr	Ala	Pro	Glu	Leu	Thr	Ala	Arg	Gly	Tyr	Lys	Leu	Ile	Leu	Arg	Thr
145					150					155					160
Thr	Gly	Leu	Asp	Ser	Asp	Gln	Gly	Pro	Thr	Ala	Ala	Lys	Tyr	Ile	Val
				165					170					175	
Glu	Lys	Val	Lys	Pro	Gln	Arg	Ile	Ala	Ile	Val	His	Asp	Lys	Gln	Gln
			180					185					190		
Tyr	Gly	Glu	Gly	Leu	Ala	Arg	Ala	Val	Gln	Asp	Asn	Leu	Lys	Lys	Ala
		195					200					205			
Asn	Ala	Asn	Val	Val	Phe	Phe	Asp	Gly	Ile	Thr	Ala	Gly	Glu	Lys	Asp
		210				215					220				
Phe	Ser	Thr	Leu	Val	Ala	Arg	Leu	Lys	Lys	Glu	Asn	Ile	Asp	Phe	Val
225					230					235					240
Tyr	Tyr	Gly	Gly	Tyr	His	Pro	Glu	Met	Gly	Gln	Ile	Leu	Arg	Gln	Ala
				245					250					255	
Arg	Ala	Ala	Gly	Leu	Lys	Thr	Gln	Phe	Met	Gly	Pro	Glu	Gly	Val	Ala
			260					265					270		
Asn	Val	Ser	Leu	Ser	Asn	Ile	Ala	Gly	Glu	Ser	Ala	Glu	Gly	Leu	Leu
		275					280					285			
Val	Thr	Lys	Pro	Lys	Asn	Tyr	Asp	Gln	Val	Pro	Ala	Asn	Lys	Pro	Val

290		295		300
Val Asp Ala Ile Lys	Ala Lys Lys Gln Asp Pro Ser Gly Ala Phe Val			
305	310		315	320
Trp Thr Thr Tyr Ala	Leu Gln Ser Leu Gln Ala Gly Leu Asn Gln			
	325		330	335
Ser Ala Asp Pro Ala	Glu Ile Ala Thr Trp Leu Lys Ala Asn Ser Val			
	340		345	350
Glu Thr Val Met Gly	Pro Leu Ser Trp Asp Glu Lys Gly Asp Leu Lys			
	355		360	365
Gly Phe Glu Phe Gly	Val Phe Asp Trp His Ala Asn Gly Thr Ala Thr			
	370		375	380
Asp Ala Lys				
385				

<210> 9300

<211> 798

<212> PRT

<213> Enterobacter cloacae

<400> 9300

Gly Thr Phe Met Leu Arg Tyr Ser Leu Leu Thr Ala Gly Leu Met Leu	
1	5 10 15
Gly Ala Ser Ala Phe Ala Ala Pro Ala Gly Asp Leu Pro Leu Met Pro	
	20 25 30
Trp Pro Ala Lys Val Glu Arg Pro Thr Thr Gln Gly Ala Leu Glu Leu	
	35 40 45
Asn Asn Gln Leu Thr Val Ser Val Ser Gly Asp Asp Leu Gly Asp Ala	
	50 55 60
Val Asn Arg Leu Arg Gln Arg Ile Ala Leu Gln Thr Gly Trp Thr Leu	
65	70 75 80
Gln Pro Gln Ala Glu Lys Pro Asp Lys Pro Thr Ile Arg Ile Ala Ile	
	85 90 95
Ala Lys Lys Val Lys Pro Gln Pro Leu Pro Asp Ser Asp Glu Ser Tyr	
	100 105 110
Lys Leu Thr Val Asp Ala Asn Gly Val Asn Ile Ser Ala Asn Thr Arg	
	115 120 125
Phe Gly Ala Leu Arg Ala Met Glu Thr Leu Leu Gln Leu Met Gln Asn	
	130 135 140
Gly Ala Glu Asn Thr Ser Ile Pro Trp Val Thr Ile Glu Asp Ser Pro	
145	150 155 160
Arg Phe Pro Trp Arg Gly Leu Leu Leu Asp Ser Ala Arg His Phe Leu	
	165 170 175
Pro Ile Pro Asp Ile Lys Arg Gln Ile Asp Gly Met Ala Ala Ala Lys	
	180 185 190
Leu Asn Val Leu His Trp His Leu Thr Asp Asp Gln Gly Trp Arg Phe	
	195 200 205
Ser Ser Lys Arg Tyr Pro Lys Leu Thr Gln Leu Ala Ser Asp Gly Leu	
	210 215 220
Phe Tyr Thr Pro Glu Gln Met Arg Glu Ile Val Arg Tyr Ala Ala Glu	
225	230 235 240
Arg Gly Ile Arg Val Val Pro Glu Ile Asp Met Pro Gly His Ala Ser	
	245 250 255
Ala Ile Ala Val Ala Tyr Pro Glu Leu Met Ser Ala Leu Gly Pro Tyr	
	260 265 270
Ala Met Glu Arg His Trp Gly Val Leu Lys Pro Val Leu Asp Pro Thr	
	275 280 285
Lys Glu Ala Thr Tyr Thr Phe Ala Asp Ala Met Val Ser Glu Leu Ala	
	290 295 300
Ala Ile Phe Pro Asp Pro Tyr Leu His Ile Gly Gly Asp Glu Val Asp	
305	310 315 320
Asp Ser Gln Trp Lys Ala Asn Ala Ala Ile Gln Arg Phe Leu Arg Asp	

<210> 9301

<211> 156
 <212> PRT
 <213> Enterobacter cloacae

<400> 9301

Ser	Glu	Gly	Cys	Ile	Met	Ile	Ile	Gly	Asn	Ile	His	His	Leu	Gln	Ser
1				5					10					15	
Trp	Leu	Pro	Glu	Glu	Leu	Arg	Gln	Ala	Ile	Glu	His	Val	Lys	Ala	His
			20					25					30		
Val	Thr	Asp	Ala	Thr	Pro	Thr	Gly	Lys	His	Asp	Ile	Asn	Gly	Asn	Ser
		35					40					45			
Leu	Phe	Tyr	Leu	Val	Ser	Glu	Asp	Met	Thr	Gln	Pro	Phe	Ala	Glu	Arg
	50				55					60					
Arg	Ala	Glu	Tyr	His	Ala	Arg	Tyr	Leu	Asp	Ile	Gln	Ile	Val	Leu	Lys
65				70					75					80	
Gly	Gln	Glu	Gly	Met	Thr	Phe	Ser	Thr	Leu	Pro	His	Gly	Thr	Pro	Asp
			85					90						95	
Thr	Asp	Trp	Leu	Ala	Asp	Lys	Asp	Ile	Ala	Phe	Leu	Pro	Glu	Gly	Glu
			100					105					110		
Gln	Glu	Lys	Thr	Val	Val	Leu	Ser	Glu	Gly	Asp	Phe	Val	Val	Phe	Trp
		115					120					125			
Pro	Gly	Glu	Val	His	Lys	Pro	Leu	Cys	Ala	Val	Gly	Ala	Pro	Ala	Lys
	130					135					140				
Val	Arg	Lys	Val	Val	Val	Lys	Met	Leu	Val	Glu					
145					150					155					

<210> 9302
 <211> 143
 <212> PRT
 <213> Enterobacter cloacae

<400> 9302

Ala	Met	Ala	Asn	Pro	Glu	Leu	Leu	Glu	Glu	Gln	Arg	Glu	Glu	Thr	Arg
1			5						10					15	
Leu	Ile	Ile	Glu	Glu	Leu	Leu	Glu	Asp	Gly	Ser	Asp	Pro	Asp	Ala	Leu
			20					25					30		
Tyr	Thr	Ile	Glu	His	His	Phe	Ser	Ala	Asp	Asp	Phe	Asp	Ala	Leu	Glu
		35					40					45			
Lys	Met	Ala	Val	Glu	Ala	Phe	Lys	Leu	Gly	Tyr	Glu	Val	Thr	Glu	Pro
	50					55				60					
Glu	Glu	Leu	Glu	Val	Glu	Glu	Gly	Asp	Thr	Val	Ile	Cys	Cys	Asp	Ile
65				70						75				80	
Leu	Ser	Glu	Gly	Ala	Leu	Lys	Ala	Glu	Leu	Ile	Asp	Ala	Gln	Val	Glu
			85					90					95		
Gln	Leu	Met	Asn	Leu	Ala	Glu	Lys	Phe	Glu	Val	Glu	Tyr	Asp	Gly	Trp
		100						105					110		
Gly	Thr	Tyr	Phe	Glu	Asp	Pro	Asn	Gly	Glu	Asp	Gly	Glu	Glu	Gly	Asp
		115					120					125			
Asp	Glu	Asp	Tyr	Val	Asp	Glu	Asp	Asp	Asp	Gly	Val	Arg	His		
	130					135					140				

<210> 9303
 <211> 1110
 <212> PRT
 <213> Enterobacter cloacae

<400> 9303

Val	Thr	Gly	Trp	Gly	Met	Asp	Ser	Asn	Thr	Gln	Gly	Phe	Thr	Ser	Tyr
1				5					10					15	
Trp	Arg	Asn	Thr	Leu	Ala	Asp	Ala	Glu	Ser	Gly	Lys	Gly	Ala	Phe	Glu
			20					25					30		

Arg	Lys	Asp	Glu	Glu	Ser	Phe	Thr	Gln	Trp	Met	Asn	Val	Asp	Arg	Gly
		35					40					45			
Arg	Leu	Asp	Glu	Glu	Ile	Val	Gln	Ala	Phe	Phe	Glu	Gly	Glu	Asp	Glu
	50					55					60				
Gln	Val	Lys	Thr	Val	Glu	Val	Met	Leu	Arg	Pro	Gln	Val	Trp	Ile	Arg
65					70					75				80	
Leu	Leu	Lys	His	Gly	Lys	Glu	Arg	Thr	Ala	Gly	Ala	Pro	Gly	Ile	Val
				85					90					95	
Thr	Pro	Leu	Val	Thr	Ser	Ala	Leu	Leu	Asn	Arg	Glu	Gly	Phe	Leu	Phe
			100					105					110		
Pro	Ala	Ser	Pro	Ala	Thr	Ile	Pro	Arg	Asp	Leu	Leu	Glu	Pro	Leu	Pro
		115					120					125			
Lys	Gly	Thr	Phe	Ser	Ile	Gly	Glu	Met	Thr	Glu	Tyr	Asp	Arg	Tyr	Lys
	130					135					140				
Thr	Thr	His	Asp	Ser	Val	Thr	Phe	Gly	Pro	Gly	Asp	Glu	Asp	Glu	Lys
145					150					155					160
Arg	Glu	Glu	Thr	Asp	Glu	Gln	Arg	Ala	Glu	Arg	Tyr	Ala	Arg	Tyr	Lys
				165					170					175	
Gln	Leu	Trp	Gln	Thr	Tyr	Leu	Lys	Glu	Thr	Asn	Glu	Leu	Leu	Lys	Ser
			180					185					190		
Val	Ala	Gly	Lys	Trp	Leu	Asp	Ala	Pro	Glu	Gln	Tyr	Glu	Pro	Ala	Gly
		195					200					205			
Tyr	Gly	Tyr	Val	Ile	Lys	Ala	Asn	Gln	Ser	Gly	Gly	Ala	Ser	Ile	His
	210					215					220				
Ile	Leu	Pro	Met	Tyr	Asp	His	Leu	Leu	Ser	Cys	Lys	Lys	Glu	Val	Pro
225					230					235					240
Leu	Leu	Ala	Arg	Phe	Ala	Ser	Lys	Asp	Lys	Ser	Pro	Val	Glu	Pro	Leu
				245					250					255	
Leu	Ala	Ser	Asn	Ala	Met	Phe	Thr	Glu	Arg	Leu	Gly	His	Ser	Gly	Asp
			260					265					270		
Lys	Phe	Pro	Leu	Ala	Val	Ala	Gln	Arg	Asp	Ala	Leu	Ser	His	Tyr	Leu
		275					280					285			
Thr	Gln	Gln	Pro	Gly	Asp	Ile	Leu	Ala	Val	Asn	Gly	Pro	Pro	Gly	Thr
	290					295					300				
Gly	Lys	Thr	Thr	Leu	Val	Leu	Ser	Ile	Ile	Ala	Thr	Glu	Trp	Ala	Arg
305					310					315					320
Ala	Ala	Leu	Asn	Lys	Thr	Glu	Pro	Pro	Val	Val	Ile	Ala	Thr	Ser	Thr
				325					330					335	
Asn	Asn	Gln	Ala	Val	Thr	Asn	Ile	Ile	Glu	Ala	Phe	Gly	Lys	Asp	Phe
			340					345					350		
Ala	Thr	Gly	Ser	Gly	Pro	Met	Ala	Gly	Arg	Trp	Leu	Pro	Asp	Val	Lys
		355					360					365			
Ser	Phe	Gly	Ala	Tyr	Phe	Pro	Ser	Ser	Ser	Arg	Lys	Ala	Glu	Ala	Ala
	370					375					380				
Lys	Lys	Tyr	Gln	Thr	Glu	Asp	Phe	Phe	Asn	Arg	Val	Glu	Ser	Leu	Glu
385					390					395					400
Tyr	Val	Glu	Asp	Ala	Arg	Phe	Phe	Phe	Leu	Glu	Lys	Ala	Ser	Ala	Ala
				405					410					415	
Phe	Pro	Thr	Val	Glu	Cys	His	Ser	Pro	Glu	Gln	Val	Val	Asp	Leu	Leu
			420					425					430		
His	Gln	Arg	Leu	Val	Glu	Leu	Ser	Ala	Glu	Leu	Glu	Gln	Ile	Glu	Pro
		435					440					445			
Ala	Trp	Asp	Ala	Leu	Asn	Ala	Ile	Arg	Glu	Glu	Arg	Ser	Ala	Val	Ser
	450					455					460				
Asp	Asp	Leu	Glu	Gln	Tyr	Ile	Glu	Asp	Lys	Arg	Thr	Ser	Leu	Leu	Asn
465					470				475						480
Ser	Thr	Asn	Glu	Ile	Ser	Leu	Leu	Thr	Gln	Gly	Lys	Lys	Gln	Trp	Glu
				485					490					495	
Gln	Tyr	Arg	Ala	Gly	Glu	Ser	Phe	Met	Phe	Ala	Leu	Phe	Ser	Trp	Leu
		500						505					510		
Pro	Ala	Val	Arg	Thr	Lys	Arg	His	Tyr	Gln	Met	Lys	Leu	Phe	Leu	Glu

		515						520						525				
Ala	Thr	Phe	Gly	Glu	Arg	Met	Thr	Ala	Phe	Gln	Gly	Ala	Leu	Pro	Asp			
	530					535					540							
Gly	Ile	Asp	Ala	Phe	Ile	Asn	Gly	Leu	Ile	Glu	Gln	Ala	Arg	Lys	Glu			
545					550					555					560			
Gln	Ala	Gly	Tyr	Gln	Gln	Gln	Met	Asp	Leu	Ala	Glu	Asp	Ile	Ser	Arg			
				565					570					575				
Arg	Glu	Ser	Glu	Ala	Ala	Met	Arg	Trp	His	His	Ile	Thr	His	Ser	Leu			
			580					585						590				
Gly	Asn	Pro	Gly	Glu	Thr	Glu	Leu	Ser	Leu	His	Glu	Ala	Asp	Glu	Leu			
		595					600					605						
Ala	Asp	Thr	Gln	Leu	Arg	Phe	Pro	Met	Phe	Leu	Leu	Ala	Thr	His	Tyr			
	610					615					620							
Trp	Glu	Gly	Arg	Trp	Leu	Met	Asp	Met	Ala	Ala	Ile	Asp	Asn	Ile	Gln			
625					630					635					640			
Lys	Glu	Lys	Gly	Arg	Thr	Gly	Ala	Lys	Ser	Thr	Lys	Ala	Arg	Trp	Gln			
				645					650					655				
Arg	Arg	Met	Lys	Leu	Thr	Pro	Cys	Val	Val	Met	Thr	Cys	Phe	Met	Phe			
			660					665						670				
Pro	Tyr	His	Met	Lys	Thr	Ser	Glu	Phe	Val	Gly	Gly	Asn	Lys	Lys	Phe			
		675					680					685						
Asp	Asp	Asn	Tyr	Leu	Tyr	Asn	Phe	Ala	Asp	Leu	Leu	Ile	Val	Asp	Glu			
	690					695					700							
Ala	Gly	Gln	Val	Leu	Pro	Glu	Val	Ala	Ala	Ala	Ser	Phe	Ala	Leu	Ala			
705					710					715					720			
Lys	Lys	Ala	Leu	Val	Ile	Gly	Asp	Thr	Glu	Gln	Ile	Ala	Pro	Ile	Trp			
				725					730					735				
Asn	Ser	Leu	Pro	Gly	Ile	Asp	Ile	Gly	Asn	Met	Val	Glu	Glu	Asn	Ile			
			740					745						750				
Leu	Pro	Gly	Gly	Thr	Gln	Glu	Glu	Leu	Thr	Glu	Ser	Tyr	Ala	Leu	Val			
		755					760					765						
Cys	Asp	Ser	Gly	Lys	Ser	Ala	Ala	Ser	Gly	Ser	Val	Met	Lys	Ile	Ala			
	770					775					780							
Gln	Phe	Asn	Ser	Arg	Tyr	Gln	Tyr	Asp	Pro	Asp	Phe	Ala	Arg	Gly	Met			
785					790					795					800			
Tyr	Leu	Tyr	Glu	His	Arg	Arg	Cys	Phe	Asp	Asn	Ile	Ile	Gly	Tyr	Cys			
				805					810					815				
Asn	Thr	Leu	Cys	Tyr	His	Gly	Lys	Leu	Gln	Pro	Lys	Arg	Gly	Glu	Glu			
			820					825					830					
Lys	Glu	Thr	Ile	Phe	Pro	Ala	Met	Gly	Tyr	Leu	His	Ile	Asp	Gly	Lys			
		835					840					845						
Gly	Met	Gln	Ala	Ser	Gly	Gly	Ser	Arg	Tyr	Asn	Ala	Phe	Glu	Ala	Glu			
	850					855					860	</						

Arg Gln Asp Leu Ser Thr Ser Gln Thr Gln Ile Ser Thr Leu His Gly
 1010 1015 1020
 Val Glu Gln His Asp Ala Phe Leu Asn Gln Thr Phe Asp Ala Ile Asn
 1025 1030 1035 1040
 Gln Ser Ile Thr Ile Val Ser Pro Trp Leu Thr Trp Gln Lys Leu Glu
 1045 1050 1055
 Gln Thr Gly Phe Leu Ala Ser Met Ser Gln Ala Arg Ala Arg Gly Ile
 1060 1065 1070
 Asp Ile Thr Val Val Thr Asp Lys Thr Phe Asn Thr Glu His Thr Asp
 1075 1080 1085
 Phe Glu Lys Arg Lys Glu Lys His Gln Leu Thr Cys Ser Pro Leu Ile
 1090 1095 1100
 Ser Thr Pro Arg Cys
 1105 1110

<210> 9304

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 9304

Cys Leu His Lys Pro His Glu Asp Ile Pro Met Lys Lys Arg Phe Ser
 1 5 10 15
 Asp Glu Gln Ile Ile Ser Ile Leu Arg Glu Ala Glu Ala Gly Val Pro
 20 25 30
 Ala Arg Glu Leu Cys Arg Lys His Ala Ile Ser Asp Ala Thr Phe Tyr
 35 40 45
 Ile Trp Arg Lys Lys Tyr Gly Gly Met Glu Val Pro Glu Val Lys Arg
 50 55 60
 Leu Lys Ser Leu Glu Glu Asn Ala Arg Leu Lys Lys Leu Leu Ala
 65 70 75 80
 Glu Ala Met Leu Asp Lys Glu Ala Leu Gln Val Ala Leu Gly Arg Lys
 85 90 95
 Tyr

<210> 9305

<211> 925

<212> PRT

<213> Enterobacter cloacae

<400> 9305

Gln Val Arg Leu Cys His Ala Cys Gly Lys Asp Cys Val Arg Leu Cys
 1 5 10 15
 Gly Cys Gly Gly Met Thr Met Leu Lys Asn Ile Thr Arg Gln Leu Gln
 20 25 30
 Ala Leu Leu Ser Arg His Leu Pro His Arg Leu Ile Ala Arg Asp Pro
 35 40 45
 Leu Pro Asn Ala Asn Thr Met Ala Gly Ala Ala Ile Pro Ala Ser Leu
 50 55 60
 Thr Glu Arg Cys Leu Asn Val Ala Ala Met Asp Glu Asn Glu Val Trp
 65 70 75 80
 Arg Ala Phe Gly Gly His Pro Glu Gly Leu Asn Ala Gln Glu Val Ser
 85 90 95
 Lys Ile Arg Ala Glu His Gly Asp Asn Gln Ile Pro Ala Gln Lys Pro
 100 105 110
 Ser Pro Trp Trp Val His Leu Trp Leu Cys Tyr Arg Asn Pro Phe Asn
 115 120 125
 Leu Leu Leu Thr Val Leu Gly Ile Ile Ser Tyr Ala Thr Glu Asp Leu
 130 135 140
 Phe Ala Ala Gly Val Ile Ala Leu Met Val Gly Ile Ser Thr Leu Leu

145					150					155				160
Asn	Phe	Ile	Gln	Glu	Ala	Arg	Ser	Thr	Lys	Ala	Ala	Asp	Ala	Leu
				165					170					175
Ala	Met	Val	Ser	Asn	Thr	Ala	Thr	Val	Ser	Arg	Val	Ile	Asn	Leu
			180					185				190		
Gly	Glu	Asn	Ala	Trp	Ile	Glu	Leu	Pro	Ile	Asp	Gln	Leu	Val	Gly
		195					200				205			
Asp	Leu	Val	Lys	Leu	Ala	Ala	Gly	Asp	Met	Ile	Pro	Ala	Asp	Arg
	210					215				220				
Ile	Ile	Gln	Ala	Arg	Asp	Leu	Phe	Val	Ala	Gln	Ala	Ser	Leu	Gly
225					230				235					240
Glu	Ser	Leu	Pro	Val	Glu	Lys	Val	Ala	Arg	Thr	Arg	Asp	Pro	Gln
				245					250					255
Met	Asn	Pro	Leu	Glu	Cys	Asp	Thr	Leu	Cys	Phe	Met	Gly	Thr	Val
			260					265					270	
Val	Ser	Gly	Thr	Ala	Gln	Ala	Ile	Val	Thr	Ala	Thr	Gly	Gly	Asn
		275					280					285		
Trp	Phe	Gly	Gln	Leu	Ala	Gly	Arg	Val	Ser	Glu	Gln	Glu	Ser	Pro
	290					295				300				
Asn	Ala	Phe	Gln	Lys	Gly	Ile	Gly	Arg	Val	Ser	Met	Leu	Leu	Arg
305					310				315					320
Phe	Met	Met	Val	Met	Thr	Pro	Ile	Val	Leu	Leu	Ile	Asn	Gly	Thr
				325					330					335
Lys	Gly	Asp	Trp	Trp	Glu	Ala	Ala	Leu	Phe	Ala	Leu	Ser	Val	Val
			340					345					350	
Gly	Leu	Thr	Pro	Glu	Met	Leu	Pro	Met	Ile	Val	Thr	Ser	Thr	Ala
		355					360					365		
Arg	Gly	Ala	Val	Lys	Leu	Ser	Lys	Gln	Lys	Val	Ile	Val	Lys	Leu
	370					375				380				
Asp	Ala	Ile	Gln	Asn	Phe	Gly	Ala	Met	Asp	Ile	Leu	Cys	Thr	Lys
385					390				395					400
Thr	Gly	Thr	Leu	Thr	Gln	Asp	Lys	Ile	Val	Leu	Glu	Asn	His	Asp
				405					410					415
Ile	Ala	Gly	Lys	Thr	Ser	Glu	Arg	Val	Leu	Tyr	Ser	Ala	Trp	Asn
			420					425					430	
Ser	His	Tyr	Gln	Thr	Gly	Leu	Lys	Asn	Leu	Leu	Asp	Val	Ala	Leu
		435					440					445		
Glu	Gly	Val	Asp	Glu	Glu	Ser	Ala	Arg	Met	Leu	Ser	Gly	Arg	Gln
	450					455				460				
Lys	Val	Asp	Glu	Ile	Pro	Phe	Asp	Phe	Glu	Arg	Arg	Arg	Met	Val
465					470				475					480
Val	Val	Ser	Glu	Gln	Pro	Asp	Val	His	Gln	Leu	Ile	Cys	Lys	Gly
				485					490					495
Leu	Gln	Glu	Ile	Leu	Asn	Val	Ser	Thr	Gln	Val	Arg	His	Asn	Gly
			500					505					510	
Ile	Val	Leu	Leu	Asp	Glu	Thr	Met	Leu	Arg	Arg	Ile	Lys	Arg	Thr
		515					520					525		
Asp	Asn	Leu	Asn	Arg	Gln	Gly	Leu	Arg	Val	Val	Ala	Val	Ala	Lys
	530					535					540			
Phe	Leu	Pro	Ala	Arg	Glu	Gly	Asp	Tyr	Gln	Arg	Ile	Asp	Glu	Asp
545					550				555					560
Leu	Ile	Leu	Glu	Gly	Tyr	Ile	Ala	Phe	Leu	Asp	Pro	Pro	Lys	Glu
				565				570						575
Thr	Ala	Pro	Ala	Leu	Lys	Ala	Leu	Lys	Ala	Ser	Gly	Ile	Thr	Lys
			580					585					590	
Ile	Leu	Thr	Gly	Asp	Ser	Glu	Leu	Val	Ala	Ala	Lys	Val	Cys	Glu
		595					600					605		
Val	Gly	Leu	Asp	Ala	Gly	Asp	Val	Val	Val	Gly	Ser	Asp	Ile	Leu
	610					615					620			
Leu	Ser	Asp	Asp	Glu	Leu	Ala	Asp	Leu	Ala	Gln	Arg	Thr	Thr	Phe
625					630					635				640

Ala Arg Leu Thr Pro Met His Lys Glu Arg Ile Val Thr Leu Leu Arg
 645 650 655
 Arg Glu Gly His Val Val Gly Phe Met Gly Asp Gly Ile Asn Asp Ala
 660 665 670
 Pro Ala Leu Arg Ala Ala Asp Ile Gly Ile Ser Val Asp Gly Ala Val
 675 680 685
 Asp Ile Ala Arg Glu Ala Ala Asp Ile Ile Leu Leu Glu Lys Ser Leu
 690 695 700
 Met Val Leu Glu Glu Gly Val Ile Glu Gly Arg Arg Thr Phe Ala Asn
 705 710 715 720
 Met Leu Lys Tyr Ile Lys Met Thr Ala Ser Ser Asn Phe Gly Asn Val
 725 730 735
 Phe Ser Val Leu Val Ala Ser Ala Phe Leu Pro Phe Leu Pro Met Leu
 740 745 750
 Pro Leu His Leu Leu Ile Gln Asn Leu Met Tyr Asp Val Ser Gln Val
 755 760 765
 Ala Ile Pro Phe Asp Asn Val Asp Asp Glu Gln Ile Gln Lys Pro Gln
 770 775 780
 Arg Trp Asn Pro Ala Asp Leu Gly Arg Phe Met Leu Phe Phe Gly Pro
 785 790 795 800
 Ile Ser Ser Ile Phe Asp Ile Leu Thr Phe Cys Leu Met Trp Phe Val
 805 810 815
 Phe His Ala Asn Thr Pro Glu His Gln Thr Leu Phe Gln Ser Gly Trp
 820 825 830
 Phe Val Val Gly Leu Leu Ser Gln Thr Leu Ile Val His Met Ile Arg
 835 840 845
 Thr Arg Arg Ile Pro Phe Ile Gln Ser Arg Ala Ala Trp Pro Leu Ile
 850 855 860
 Val Met Thr Gly Ile Val Met Ala Leu Gly Ile Ala Leu Pro Phe Ser
 865 870 875 880
 Pro Leu Ala Ser Tyr Leu Gln Leu Gln Ala Leu Pro Leu Ser Tyr Phe
 885 890 895
 Pro Trp Leu Val Ala Ile Leu Ala Gly Tyr Met Val Leu Thr Gln Met
 900 905 910
 Val Lys Gly Phe Tyr Ser Arg Arg Tyr Gly Trp Gln
 915 920 925

<210> 9306

<211> 675

<212> PRT

<213> Enterobacter cloacae

<400> 9306

Gly Ala Ala Glu Asn Pro Ala Ala Thr Ala Gln Ala Leu Leu Ser Trp
 1 5 10 15
 Thr Ile Thr Met Thr Ile Glu Lys Ile Phe Thr Pro Gln Asp Asp Ala
 20 25 30
 Phe Tyr Ala Val Ile Thr His Ala Ala Gly Pro Gln Gly Thr Leu Pro
 35 40 45
 Leu Thr Pro Gln Met Leu Met Glu Ser Pro Ser Gly Asn Leu Phe Gly
 50 55 60
 Met Thr Gln Asn Ala Gly Met Gly Trp Asp Ala Asn Lys Leu Thr Gly
 65 70 75 80
 Lys Glu Val Leu Ile Ile Gly Thr Gln Gly Gly Ile Arg Ala Gly Asp
 85 90 95
 Gly Arg Pro Val Ala Leu Gly Tyr His Thr Gly His Trp Glu Ile Gly
 100 105 110
 Met Gln Met Gln Ala Ala Ala Lys Glu Ile Thr Arg Asn Gly Gly Ile
 115 120 125
 Pro Phe Ala Ala Phe Val Ser Asp Pro Cys Asp Gly Arg Ser Gln Gly
 130 135 140

Thr	His	Gly	Met	Phe	Asp	Ser	Leu	Pro	Tyr	Arg	Asn	Asp	Ala	Ala	Ile
145					150					155					160
Val	Phe	Arg	Arg	Leu	Ile	Arg	Ser	Leu	Pro	Thr	Arg	Arg	Ala	Val	Ile
				165					170						175
Gly	Val	Ala	Thr	Cys	Asp	Lys	Gly	Leu	Pro	Ala	Thr	Met	Ile	Ala	Leu
			180					185					190		
Ala	Ser	Met	His	Asp	Leu	Pro	Thr	Ile	Leu	Val	Pro	Gly	Gly	Ala	Thr
		195					200					205			
Leu	Pro	Pro	Thr	Val	Gly	Glu	Asp	Ala	Gly	Lys	Val	Gln	Thr	Ile	Gly
	210					215					220				
Ala	Arg	Phe	Ala	Asn	His	Glu	Leu	Ser	Leu	Gln	Glu	Ala	Ala	Glu	Leu
225					230					235					240
Gly	Cys	Arg	Ala	Cys	Ala	Ser	Pro	Gly	Gly	Gly	Cys	Gln	Phe	Leu	Gly
				245					250						255
Thr	Ala	Gly	Thr	Ser	Gln	Val	Val	Ala	Glu	Ala	Leu	Gly	Leu	Ala	Leu
			260					265					270		
Pro	His	Ser	Ala	Leu	Ala	Pro	Ser	Gly	Gln	Ala	Val	Trp	Leu	Glu	Ile
		275					280					285			
Ala	Arg	Gln	Ser	Ala	Arg	Ala	Val	Ser	Glu	Leu	Asp	Asn	Arg	Gly	Ile
	290					295					300				
Thr	Thr	Arg	Asp	Ile	Leu	Thr	Asp	Lys	Ala	Ile	Glu	Asn	Ala	Met	Val
305					310					315					320
Ile	His	Ala	Ala	Phe	Gly	Gly	Ser	Thr	Asn	Leu	Leu	Leu	His	Ile	Pro
				325					330					335	
Ala	Ile	Ala	His	Ala	Ala	Gly	Cys	Thr	Ile	Pro	Asp	Val	Glu	His	Trp
			340					345					350		
Thr	Arg	Val	Asn	Arg	Arg	Val	Pro	Arg	Leu	Val	Ser	Val	Leu	Pro	Asn
		355					360					365			
Gly	Pro	Asp	Tyr	His	Pro	Thr	Val	Arg	Ala	Phe	Leu	Ala	Gly	Gly	Val
	370					375					380				
Pro	Glu	Val	Met	Leu	His	Leu	Arg	Asp	Leu	Gly	Leu	Leu	His	Leu	Asp
385					390					395					400
Ala	Met	Thr	Val	Thr	Gly	Gln	Thr	Val	Gly	Glu	Asn	Leu	Asp	Trp	Trp
				405					410					415	
Gln	Ala	Ser	Glu	Arg	Arg	Lys	Arg	Phe	Arg	Gln	Cys	Leu	Arg	Glu	Gln
			420					425					430		
Asp	Gly	Val	Asp	Pro	Asp	Asp	Val	Ile	Leu	Pro	Pro	Glu	Lys	Ala	Lys
		435					440					445			
Ala	Lys	Gly	Leu	Thr	Ser	Thr	Val	Cys	Phe	Pro	Thr	Gly	Asn	Ile	Ala
	450					455					460				
Pro	Glu	Gly	Ser	Val	Ile	Lys	Ala	Thr	Ala	Ile	Asp	Pro	Ser	Val	Val
465					470					475					480
Gly	Glu	Asp	Gly	Val	Tyr	Arg	His	Thr	Gly	Arg	Ala	Arg	Val	Phe	Val
				485					490					495	
Ser	Glu	Ala	Gln	Ala	Ile	Lys	Ala	Ile	Lys	Arg	Glu	Glu	Ile	Lys	Gln
			500					505					510		
Gly	Asp	Ile	Met	Val	Val	Ile	Gly	Gly	Gly	Pro	Ser	Gly	Thr	Gly	Met
		515					520					525			
Glu	Glu	Thr	Tyr	Gln	Leu	Thr	Ser	Ala	Leu	Lys	His	Ile	Ser	Trp	Gly
	530					535					540				
Lys	Thr	Val	Ser	Leu	Ile	Thr	Asp	Ala	Arg	Phe	Ser	Gly	Val	Ser	Thr
545					550					555					560
Gly	Ala	Cys	Phe	Gly	His	Val	Ser	Pro	Glu	Ala	Leu	Ala	Gly	Gly	Pro
				565					570					575	
Ile	Gly	Lys	Leu	Arg	Asp	Asn	Asp	Ile	Ile	Glu	Ile	Ala	Val	Asp	Arg
			580				585						590		
Leu	Thr	Leu	Thr	Gly	Ser	Val	Asn	Phe	Ile	Gly	Thr	Ala	Asp	Asn	Pro
		595					600					605			
Leu	Thr	Pro	Glu	Glu	Gly	Ala	Arg	Glu	Leu	Ala	Met	Arg	Gln	Thr	His
	610					615					620				
Pro	Asp	Leu	His	Ala	His	Asp	Phe	Leu	Pro	Asp	Asp	Thr	Arg	Leu	Trp

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<210> 9307
<211> 575
<212> PRT
<213> Enterobacter cloacae
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<400> 9307															
Ala 1	His	Arg	Cys	Pro 5	Arg	Gly	Gly	His	Gln 10	Pro	Ala	Ala	Asp	Gln 15	Ala
Pro	Arg	Gly	Ala 20	Gly	Arg	Gly	Arg	Ser 25	Arg	Arg	Cys	Asp	Ser 30	Arg	Ile
Pro	Leu	Thr 35	Gly	Gly	Thr	Met	Glu 40	Ile	Thr	Asn	Pro	Ile 45	Leu	Thr	Gly
Phe	Asn 50	Pro	Asp	Pro	Ser	Leu 55	Cys	Arg	Gln	Gly	Glu 60	Asp	Tyr	Tyr	Ile
Ala 65	Thr	Ser	Thr	Phe	Glu 70	Trp	Phe	Pro	Gly	Val 75	Arg	Ile	Tyr	His	Ser 80
Arg	Asp	Leu	Lys	Asn 85	Trp	Ser	Leu	Val	Ser 90	Thr	Pro	Leu	Asp	Arg 95	Val
Ser	Met	Leu	Asp 100	Met	Lys	Gly	Asn	Pro 105	Asp	Ser	Gly	Gly	Ile 110	Trp	Ala
Pro	Cys	Leu 115	Ser	Tyr	Ala	Asp	Gly 120	Lys	Phe	Trp	Leu	Leu 125	Tyr	Thr	Asp
Val	Lys 130	Ile	Val	Asp	Ser	Pro 135	Trp	Lys	Asn	Gly	Arg 140	Asn	Phe	Leu	Val
Thr 145	Ala	Pro	Ser	Ile	Glu 150	Gly	Pro	Trp	Ser	Glu 155	Pro	Ile	Pro	Met	Gly 160
Asn	Gly	Gly	Phe	Asp 165	Pro	Ser	Leu	Phe	His 170	Asp	Asp	Asp	Gly	Arg 175	Lys
Tyr	Tyr	Leu	Tyr 180	Arg	Pro	Trp	Gly	Pro 185	Arg	His	His	Ser	Asn 190	Pro	His
Asn	Thr	Ile 195	Val	Met	Gln	Ala	Phe 200	Asp	Pro	Gln	Thr	Gly 205	Thr	Leu	Ser
Pro	Glu 210	Arg	Lys	Thr	Leu	Phe 215	Thr	Gly	Thr	Pro	Leu	Cys 220	Tyr	Thr	Glu
Gly 225	Ala	His	Leu	Tyr	Arg 230	His	Ala	Gly	Trp	Tyr 235	Tyr	Leu	Met	Val	Ala 240
Glu	Gly	Gly	Thr	Ser 245	Tyr	Glu	His	Ala	Val 250	Val	Val	Leu	Arg	Ser 255	Lys
Thr	Ile	Asp	Gly 260	Pro	Tyr	Glu	Leu	His 265	Pro	Asp	Val	Thr	Met 270	Met	Thr
Ser	Trp	His 275	Leu	Pro	Glu	Asn	Pro 280	Leu	Gln	Lys	Ser	Gly 285	His	Gly	Ser
Leu	Leu 290	Gln	Thr	His	Thr	Gly 295	Glu	Trp	Tyr	Met	Ala 300	Tyr	Leu	Thr	Ser
Arg 305	Pro	Leu	Arg	Leu	Pro 310	Gly	Val	Pro	Leu	Leu 315	Ala	Ser	Gly	Gly	Arg 320
Gly	Tyr	Cys	Pro	Leu 325	Gly	Arg	Glu	Thr	Gly 330	Ile	Ala	Arg	Ile	Glu 335	Trp
Arg	Asp	Gly	Trp 340	Pro	Tyr	Val	Glu	Gly 345	Gly	Lys	His	Ala	Gln 350	Leu	Thr
Val	Lys	Gly 355	Pro	Gln	Met	Ala	Glu 360	Gln	Pro	Val	Ser	Ile 365	Gln	Gly	Asn
Trp	Arg	Glu	Asp	Phe	Asp	Gly	Ser	Thr	Leu	Asp	Pro	Glu	Leu	Gln	Thr

370	375	380
Leu Arg Ile Pro Phe Asp	Asp Thr Leu Gly Ser	Leu Thr Ala Arg Pro
385	390	395
Gly Tyr Leu Arg Leu Tyr	Gly Asn Asp Ser	Leu Asn Ser Thr Phe Thr
	405	410
Gln Ser Thr Val Ala Arg Arg	Trp Gln His Phe Ala Phe Arg Ala Glu	
	420	425
Thr Arg Met Gln Phe Ser Pro	Val His Phe Gln Gln Ser Ala Gly Leu	
	435	440
Thr Cys Tyr Tyr Asn Ser Lys	Asn Trp Ser Tyr Cys Phe Val Asp Tyr	
	450	455
Glu Glu Gly Gln Gly Arg Thr	Ile Lys Val Ile Gln Leu Asp His Asn	
465	470	475
Val Pro Ser Trp Pro Leu His	Glu Gln Pro Ile Pro Val Pro Glu His	
	485	490
Ala Glu Ser Val Trp Leu Arg	Val Asp Val Asp Arg Leu Val Tyr Arg	
	500	505
Tyr Ser Tyr Ser Phe Asp Gly	Glu Thr Trp His Ala Val Pro Val Thr	
	515	520
Tyr Glu Ala Trp Lys Leu Ser	Asp Asp Tyr Ile Gly Gly Arg Gly Phe	
	530	535
Phe Thr Gly Ala Phe Val Gly	Leu His Cys Glu Asp Ile Ser Gly Asp	
545	550	555
Gly Cys His Ala Asp Phe Asp	Tyr Phe Thr Tyr Glu Pro Ala	
	565	570
		575

<210> 9308

<211> 312

<212> PRT

<213> Enterobacter cloacae

<400> 9308

Thr Trp Pro Arg Ser Leu Arg	Trp Asn Thr Thr Ala Gly Glu Pro Thr
1	5 10 15
Ser Lys Ile Arg Thr Val Lys	Thr Ala Lys Arg Ala Thr Thr Lys Ile
	20 25 30
Thr Ser Thr Lys Thr Thr Thr	Ala Cys Val Thr Lys Arg Phe Arg Arg
	35 40 45
Trp Arg Ala Pro Pro Leu Phe	Gln Gly Arg Thr Met Asp Tyr Pro Gln
	50 55 60
Ile Leu Ala Pro Val Leu Asn	Phe Leu Gln Cys Pro Thr Pro Gln Ala
65	70 75 80
Trp Ile Asp Lys Ala Arg Asp	Pro Ala Asn Leu Pro Leu Leu Leu Thr
	85 90 95
Asp His Met Val Cys Glu Leu	Lys Ala Ala Gln Thr Ala Leu Leu Leu
	100 105 110
Val Arg Lys Tyr Val Ala Asp	Glu Ser Gly Ala Asp Ala Leu Leu Glu
	115 120 125
Trp Leu Lys Pro Tyr Glu Gln	Phe Thr Phe Arg Asp Gly Pro Glu Pro
	130 135 140
Asp Phe Ile Ala Leu His Arg	Gln Ile Gly Lys Ser Val Met Pro Lys
145	150 155 160
Thr Asp Asp Pro Trp Gly Gln	Ala Leu Ile Asp Ser Met Val Leu Leu
	165 170 175
Ile Lys Glu Glu Leu His His	Phe Trp Gln Val Arg Glu Ala Met Leu
	180 185 190
Ala Arg Asp Ile Pro Tyr Val	Lys Ile Thr Ala Ser Arg Tyr Ala Lys
	195 200 205
Gly Met Leu Lys Asp Val Arg	Thr His Glu Pro Leu Thr Leu Ile Asp
	210 215 220
Lys Leu Ile Cys Gly Ala Tyr	Ile Glu Ala Arg Ser Cys Glu Arg Phe

225					230					235				240	
Ala	Ala	Leu	Ala	Pro	Phe	Leu	Asp	Asp	Asp	Leu	Gln	Lys	Phe	Tyr	Leu
				245					250					255	
Ser	Leu	Leu	Arg	Ser	Glu	Ala	Arg	His	Tyr	Gln	Asp	Tyr	Leu	Thr	Leu
			260					265						270	
Ala	Gln	Gln	Val	Ser	Asp	Asp	Asp	Ile	Ser	Pro	Arg	Ile	Gln	Leu	Phe
		275					280					285			
Gly	Glu	Ile	Glu	Ala	Thr	Leu	Ile	Ser	Thr	Pro	Asp	Asn	Glu	Phe	Arg
	290					295					300				
Phe	His	Ser	Gly	Val	Pro	Val									
305					310										

<210> 9309

<211> 163

<212> PRT

<213> Enterobacter cloacae

<400> 9309

Gly	Ile	Ser	Met	Ser	Ala	Pro	Ala	His	Leu	Trp	Leu	Glu	Asp	Glu	Asn
1				5					10					15	
Gly	Ser	Pro	Ile	Val	Gly	Cys	Cys	Ala	Met	Pro	Leu	Arg	Leu	Gly	Ser
		20						25					30		
Ile	Glu	Leu	Lys	Ser	Phe	Ser	His	Gly	Val	Thr	Ile	Pro	Val	Asp	Pro
		35					40					45			
Ser	Trp	Gly	Lys	Leu	Thr	Gly	Thr	Arg	Val	His	Arg	Pro	Ile	Thr	Ile
	50					55					60				
Val	Lys	Glu	Phe	Asp	Gln	Thr	Thr	Pro	Leu	Leu	Tyr	Arg	Ala	Val	Cys
	65				70					75				80	
Glu	Gly	Arg	Thr	Met	Lys	Lys	Ala	Thr	Ile	Lys	Met	Tyr	Arg	Ile	Leu
				85					90					95	
Glu	Ser	Gly	Ile	Glu	Ala	Glu	Tyr	Phe	Lys	Ile	Ile	Leu	Glu	Asn	Val
		100						105					110		
Lys	Phe	Thr	Thr	Val	Ala	Pro	Tyr	Leu	Ser	Pro	Gly	Ser	Met	Thr	Ser
		115					120					125			
Thr	His	Leu	Glu	Thr	Leu	Glu	Leu	Arg	Tyr	Glu	Ala	Ile	Thr	Trp	Lys
	130					135					140				
Tyr	Thr	Glu	Gly	Asn	Ile	Leu	Tyr	Arg	Asp	Ser	Trp	Asn	Asp	Arg	Cys
145					150					155					160
Cys	Ala														

<210> 9310

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 9310

Asn	Asn	Gln	Leu	Ser	Leu	Met	Leu	Ser	Cys	Glu	Phe	Ala	Met	Gly	Lys
1				5					10					15	
Val	Trp	Phe	Thr	Phe	Gly	Leu	Phe	Ala	Gly	Arg	Tyr	Asn	Thr	Ala	Arg
		20						25					30		
Leu	Val	Thr	Asn	Gly	Met	Asp	Lys	Ser	Leu	Tyr	Cys	Ala	Pro	Ile	Pro
		35					40				45				
Asn	Phe	Leu	Leu	Thr	Gly	Gly	His	Met	Asp	Pro	Asp	Pro	Thr	Pro	Leu
	50					55					60				
Leu	Thr	Arg	Arg	Lys	Pro	Ser	Tyr	Arg							
65					70										

<210> 9311

<211> 306

<212> PRT

<213> Enterobacter cloacae

<400> 9311

Gly Asp His Met Pro Gln Ser Ala Leu Phe Thr Gly Ile Ile Pro Pro
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 Val Ser Thr Ile Phe Thr Ala Asp Gly Gln Leu Asp Lys Gln Gly Thr
 20 25 30
 Ala Ala Leu Ile Asp Asp Leu Ile Lys Ala Gly Val Asp Gly Leu Phe
 35 40 45
 Phe Leu Gly Ser Gly Gly Glu Phe Ser Gln Leu Gly Ala Glu Glu Arg
 50 55 60
 Lys Thr Ile Ala Gln Phe Ala Ile Asp His Val Asp Cys Arg Val Pro
 65 70 75 80
 Val Leu Ile Gly Thr Gly Gly Thr Asn Ala Arg Glu Thr Ile Glu Leu
 85 90 95
 Ser Gln His Ala Gln Gln Ala Gly Ala Asp Gly Ile Val Val Ile Asn
 100 105 110
 Pro Tyr Tyr Trp Lys Val Ser Glu Ala Asn Leu Ile Arg Tyr Phe Glu
 115 120 125
 Gln Val Ala Asp Ser Val Thr Leu Pro Val Met Leu Tyr Asn Phe Pro
 130 135 140
 Ala Leu Thr Gly Gln Asp Leu Thr Pro Ala Leu Val Lys Thr Leu Ala
 145 150 155 160
 Asp Ser Arg Ser Asn Ile Val Gly Ile Lys Asp Thr Ile Asp Ser Val
 165 170 175
 Ala His Leu Arg Ser Met Ile His Thr Val Lys Ala Ala His Pro His
 180 185 190
 Phe Thr Val Leu Cys Gly Tyr Asp Asp His Leu Phe Asn Thr Leu Leu
 195 200 205
 Leu Gly Gly Asp Gly Ala Ile Ser Ala Ser Gly Asn Phe Ala Pro Gln
 210 215 220
 Val Ser Val Asn Leu Leu Lys Ala Trp Arg Asp Lys Asp Val Ala Lys
 225 230 235 240
 Ala Ala Glu Tyr His Gln Thr Leu Leu Gln Ile Pro Gln Met Tyr Gln
 245 250 255
 Leu Asp Thr Pro Phe Val Asn Val Ile Lys Glu Ala Ile Val Leu Cys
 260 265 270
 Gly Arg Pro Ile Ser Thr His Val Leu Pro Pro Ala Ser Ala Leu Asp
 275 280 285
 Glu Pro Arg Lys Ala Gln Leu Lys Thr Leu Leu Gln Gln Leu Lys Leu
 290 295 300
 Cys
 305

<210> 9312

<211> 471

<212> PRT

<213> Enterobacter cloacae

<400> 9312

Phe Ser Thr Leu His Lys Gly Val Ile Leu Met Thr Gln Leu Thr Met
 1 5 10 15
 Lys Asp Lys Ile Gly Tyr Gly Leu Gly Asp Thr Ala Cys Gly Phe Val
 20 25 30
 Trp Gln Ala Thr Met Phe Leu Leu Ala Tyr Phe Tyr Thr Asp Val Phe
 35 40 45
 Gly Leu Ser Ala Gly Ile Met Gly Thr Leu Phe Leu Val Ser Arg Val
 50 55 60
 Leu Asp Ala Val Thr Asp Pro Leu Met Gly Leu Leu Val Asp Arg Thr
 65 70 75 80
 Arg Thr Arg Tyr Gly Gln Phe Arg Pro Phe Leu Leu Trp Gly Ala Ile

				85				90					95				
Pro	Phe	Gly	Ile	Val	Cys	Met	Leu	Thr	Phe	Tyr	Thr	Pro	Asp	Phe	Ser		
			100					105					110				
Ala	Gln	Gly	Lys	Ile	Ile	Tyr	Ala	Cys	Ala	Thr	Tyr	Ile	Leu	Leu	Thr		
		115					120					125					
Leu	Val	Tyr	Thr	Phe	Val	Asn	Val	Pro	Tyr	Cys	Ala	Met	Pro	Gly	Val		
		130				135					140						
Ile	Thr	Ala	Asp	Pro	Lys	Glu	Arg	His	Ala	Leu	Gln	Ser	Trp	Arg	Phe		
145					150					155					160		
Phe	Leu	Ala	Ala	Ala	Gly	Ser	Leu	Ala	Ile	Ser	Gly	Ile	Ala	Leu	Pro		
			165						170					175			
Leu	Val	Ser	Ile	Ile	Gly	Lys	Gly	Asp	Glu	Gln	Val	Gly	Tyr	Phe	Gly		
		180						185					190				
Ala	Met	Cys	Val	Leu	Gly	Met	Thr	Gly	Val	Val	Leu	Leu	Tyr	Val	Cys		
		195					200					205					
Phe	Phe	Thr	Thr	Lys	Glu	Arg	Tyr	Thr	Phe	Glu	Val	Gln	Pro	Gly	Ser		
	210					215					220						
Ser	Val	Ala	Lys	Asp	Leu	Lys	Leu	Leu	Leu	Gly	Asn	Gly	Gln	Trp	Arg		
225					230					235					240		
Ile	Met	Cys	Ala	Phe	Lys	Met	Met	Ala	Thr	Cys	Ser	Asn	Val	Val	Arg		
			245						250					255			
Gly	Gly	Ala	Thr	Leu	Tyr	Phe	Val	Lys	Tyr	Val	Met	Asp	His	Pro	Glu		
		260						265					270				
Met	Ala	Thr	Gln	Phe	Leu	Leu	Tyr	Gly	Ser	Leu	Ala	Thr	Met	Phe	Gly		
		275					280					285					
Ser	Leu	Cys	Ser	Ser	Arg	Leu	Leu	Gly	Arg	Phe	Asp	Arg	Val	Thr	Ala		
	290					295					300						
Phe	Lys	Trp	Ile	Ile	Val	Ala	Tyr	Ser	Leu	Ile	Ser	Leu	Leu	Ile	Phe		
305				310						315					320		
Phe	Thr	Pro	Ala	Glu	His	Ile	Ala	Leu	Ile	Phe	Ala	Leu	Asn	Ile	Leu		
			325						330					335			
Phe	Leu	Phe	Val	Phe	Asn	Thr	Thr	Thr	Pro	Leu	Gln	Trp	Leu	Met	Ala		
			340					345					350				
Ser	Asp	Val	Val	Asp	Tyr	Glu	Glu	Ser	Arg	Ser	Gly	Arg	Arg	Leu	Asp		
		355					360					365					
Gly	Leu	Val	Phe	Ser	Thr	Tyr	Leu	Phe	Ser	Leu	Lys	Ile	Gly	Leu	Ala		
	370					375					380						
Ile	Gly	Gly	Ala	Val	Val	Gly	Trp	Ile	Leu	Ala	Tyr	Val	Asn	Tyr	Ser		
385				390						395					400		
Ala	Ser	Ser	Ser	Val	Gln	Pro	Val	Glu	Val	Leu	Thr	Thr	Ile	Lys	Ile		
				405					410					415			
Leu	Phe	Cys	Val	Val	Pro	Val	Val	Leu	Tyr	Ala	Gly	Met	Phe	Ile	Met		
			420					425					430				
Leu	Ser	Phe	Tyr	Lys	Leu	Thr	Asp	Ala	Arg	Val	Glu	Ala	Ile	Ser	Gln		
		435					440					445					
Gln	Leu	Ile	Lys	His	Arg	Ala	Ala	Gln	Gly	Glu	Ala	Val	Pro	Asp	Ala		
	450					455						460					
Ala	Thr	Ala	Ala	Ser	His												
465					470												

<210> 9313

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 9313

Arg	Gly	Ala	Ser	Gly	Gly	Ser	Trp	Ala	Lys	Val	Leu	Thr	Thr	Asp	Gln		
1				5					10					15			
Lys	Arg	Glu	Ala	Val	Met	Leu	Met	Cys	Asp	Ala	Thr	Gly	Leu	Ser	Gln		
			20					25					30				
Arg	Arg	Ala	Cys	Arg	Leu	Thr	Gly	Leu	Ser	Leu	Ser	Thr	Cys	Arg	Tyr		

	35					40				45			
Glu	Ala	His	Arg	Pro	Ala	Ala	Asp	Ala	His	Leu	Ser	Trp	Arg
	50					55					60		

<210> 9314

<211> 496

<212> PRT

<213> Enterobacter cloacae

<400> 9314

Val	Trp	Lys	Glu	Asn	Met	Ser	Ile	Ser	Ser	Val	Ile	Lys	Ser	Leu	Gln
1				5				10						15	
Asp	Ile	Met	Arg	Lys	Asp	Ala	Gly	Val	Asp	Gly	Asp	Ala	Gln	Arg	Leu
			20					25					30		
Gly	Gln	Leu	Ser	Trp	Leu	Leu	Phe	Leu	Lys	Ile	Phe	Asp	Thr	Gln	Glu
		35					40					45			
Glu	Glu	Leu	Glu	Leu	Glu	Gln	Asp	Asp	Tyr	Gln	Phe	Pro	Ile	Pro	Gln
	50					55					60				
Arg	Tyr	Leu	Trp	Arg	Ser	Trp	Ala	Ala	Asn	Ser	Glu	Gly	Ile	Thr	Gly
65					70				75						80
Asp	Ala	Leu	Leu	Glu	Phe	Val	Asn	Asp	Asp	Leu	Phe	Pro	Thr	Leu	Lys
				85				90						95	
Asn	Leu	Thr	Ala	Gln	Ile	Asp	Lys	Asn	Pro	Arg	Gly	Phe	Val	Val	Lys
			100					105					110		
Gln	Ala	Phe	Ser	Asp	Ala	Tyr	Asn	Tyr	Met	Lys	Asn	Gly	Thr	Leu	Leu
		115					120					125			
Arg	Gln	Val	Ile	Asn	Lys	Leu	Asn	Glu	Ile	Asp	Phe	Ser	Ser	Ser	Gln
	130					135					140				
Glu	Arg	His	Leu	Phe	Gly	Asp	Ile	Tyr	Glu	Gln	Ile	Leu	Arg	Asp	Leu
145					150					155					160
Gln	Ser	Ala	Gly	Asn	Ala	Gly	Glu	Phe	Tyr	Thr	Pro	Arg	Ala	Val	Thr
				165					170					175	
Arg	Phe	Met	Val	Asn	Arg	Ile	Asp	Pro	Lys	Leu	Gly	Glu	Ser	Ile	Met
		180					185						190		
Asp	Pro	Ala	Cys	Gly	Thr	Gly	Gly	Phe	Leu	Ala	Cys	Ala	Phe	Asp	His
		195					200					205			
Val	Lys	Glu	His	Tyr	Val	Lys	Thr	Thr	Glu	Asp	His	Lys	Thr	Leu	Gln
	210					215					220				
Lys	Gln	Ile	His	Gly	Val	Glu	Lys	Lys	Gln	Leu	Pro	His	Leu	Leu	Cys
225					230					235					240
Thr	Thr	Asn	Met	Leu	Leu	His	Gly	Ile	Glu	Val	Pro	Val	Gln	Ile	Arg
				245					250					255	
His	Asp	Asn	Thr	Leu	Asn	Lys	Pro	Leu	Ser	Ser	Trp	Asp	Glu	Gln	Val
			260					265					270		
Asp	Val	Ile	Val	Thr	Asn	Pro	Pro	Phe	Gly	Gly	Thr	Glu	Glu	Asp	Gly
		275					280					285			
Ile	Glu	Lys	Asn	Phe	Pro	Ala	Glu	Met	Gln	Thr	Arg	Glu	Thr	Ala	Asp
	290					295					300				
Leu	Phe	Leu	Gln	Leu	Ile	Ile	Glu	Val	Leu	Ala	Asp	Lys	Gly	Arg	Ala
305					310					315					320
Ala	Val	Val	Leu	Pro	Asp	Gly	Thr	Leu	Phe	Gly	Glu	Gly	Val	Lys	Thr
				325					330					335	
Lys	Ile	Lys	Lys	Leu	Leu	Thr	Glu	Glu	Cys	Asn	Leu	His	Thr	Ile	Val
			340					345					350		
Arg	Leu	Pro	Asn	Gly	Val	Phe	Asn	Pro	Tyr	Thr	Gly	Ile	Lys	Thr	Asn
		355					360					365			
Ile	Leu	Phe	Phe	Thr	Lys	Gly	Gln	Pro	Thr	Lys	Asp	Val	Trp	Phe	Tyr
	370					375					380				
Glu	His	Pro	Tyr	Pro	Asp	Gly	Val	Lys	Asn	Tyr	Ser	Lys	Thr	Lys	Pro
385					390					395					400
Met	Lys	Phe	Glu	Glu	Phe	Gln	Ala	Glu	Ile	Asp	Trp	Trp	Gly	Asn	Glu

				405					410				415				
Ala	Asp	Gly	Phe	Ala	Ser	Arg	Glu	Glu	Asn	Asn	Gln	Ala	Trp	Lys	Val		
			420					425					430				
Gly	Ile	Gly	Asp	Ile	Ile	Ala	Arg	Asn	Phe	Asn	Leu	Asp	Ile	Lys	Asn		
		435					440					445					
Pro	Tyr	Gln	Gly	Glu	Thr	Ile	Ser	His	Asp	Pro	Asp	Glu	Leu	Leu	Ala		
	450					455					460						
Lys	Tyr	Gln	Lys	Gln	Gln	Thr	Asp	Ile	Ser	Glu	Leu	Arg	Asn	Gln	Leu		
465				470						475					480		
Arg	Asp	Ile	Leu	Gly	Ala	Ala	Leu	Ala	Gly	Asn	Lys	Gly	Ala	Asn			
			485						490					495			

<210> 9315

<211> 317

<212> PRT

<213> Enterobacter cloacae

<400> 9315

Ala	Ala	His	Trp	Asn	Ala	Thr	Glu	Phe	Lys	Gly	Ala	Ile	Met	Glu	Arg		
1				5				10					15				
Lys	Pro	Thr	Leu	Val	Val	Ala	Leu	Gly	Gly	Asn	Ala	Leu	Leu	Lys	Arg		
		20						25					30				
Gly	Glu	Pro	Leu	Glu	Ala	Asp	Ile	Gln	Arg	Gln	Asn	Ile	Glu	Gln	Ala		
		35					40					45					
Ala	Arg	Thr	Ile	Ala	Gly	Leu	Thr	Glu	Gln	Trp	Arg	Val	Val	Leu	Val		
	50				55					60							
His	Gly	Asn	Gly	Pro	Gln	Val	Gly	Leu	Leu	Ala	Leu	Gln	Asn	Ser	Ala		
65				70				75						80			
Tyr	Asp	Lys	Val	Thr	Pro	Tyr	Pro	Leu	Asp	Val	Leu	Gly	Ala	Glu	Ser		
			85					90						95			
Gln	Gly	Met	Ile	Gly	Tyr	Met	Leu	Gln	Ala	Leu	Lys	Asn	Asn	Leu			
		100						105				110					
Pro	Gln	Arg	Glu	Val	Ser	Val	Leu	Leu	Thr	Gln	Val	Glu	Val	Asp	Ala		
		115					120					125					
Ala	Asp	Pro	Ala	Phe	Ser	Asn	Pro	Thr	Lys	Tyr	Ile	Gly	Pro	Val	Tyr		
	130					135					140						
Ser	Glu	Ala	Gln	Ala	Lys	Thr	Leu	Ala	Ala	Glu	Lys	Gly	Trp	Val	Phe		
145				150				155						160			
Lys	Ala	Asp	Gly	Ser	Tyr	Phe	Arg	Arg	Val	Val	Pro	Ser	Pro	Gln	Pro		
			165					170						175			
Lys	Arg	Ile	Val	Glu	Ser	Asp	Ala	Ile	Thr	Ala	Leu	Ile	Gln	Arg	Asp		
		180					185						190				
His	Leu	Val	Ile	Cys	Asn	Gly	Gly	Gly	Gly	Val	Pro	Val	Val	Glu	Asn		
	195					200						205					
Ala	Asn	Gly	Tyr	Arg	Gly	Ile	Glu	Ala	Val	Ile	Asp	Lys	Asp	Leu	Ser		
	210				215						220						
Ala	Ala	Leu	Leu	Ala	Arg	Gln	Ile	Glu	Ala	Asp	Ala	Leu	Leu	Ile	Leu		
225				230						235				240			
Thr	Asp	Ala	Asp	Ala	Val	Tyr	Leu	Asp	Trp	Gly	Lys	Pro	Thr	Gln	Arg		
			245					250						255			
Pro	Leu	Ala	Gln	Val	Thr	Pro	Glu	Leu	Leu	Arg	Gly	Met	Gln	Phe	Asp		
		260					265						270				
Ala	Gly	Ser	Met	Gly	Pro	Lys	Val	Ala	Ala	Cys	Arg	Glu	Phe	Val	Glu		
	275					280						285					
Ala	Cys	Gly	Gly	Ile	Ala	Gly	Ile	Gly	Ala	Leu	Asn	Asp	Gly	Ala	Glu		
	290				295						300						
Ile	Leu	Ala	Gly	Glu	Lys	Gly	Thr	Leu	Ile	Arg	Asn						
305					310					315							

<210> 9316

<211> 517

<212> PRT

<213> Enterobacter cloacae

<400> 9316

Arg	Lys	Arg	Ser	Ser	Asn	His	Arg	Thr	Pro	Ser	Ser	Ser	Thr	Lys	Gln
1				5					10					15	
Arg	Thr	Ala	Cys	Thr	Pro	Leu	Lys	Arg	Ser	Trp	Trp	Arg	His	Ser	Ala
			20					25					30		
Thr	Asn	His	Arg	Pro	Ala	Arg	Arg	Gly	Val	Arg	Arg	Val	Gln	Glu	Asn
		35					40					45			
Ile	Met	Gly	Lys	Phe	Lys	Phe	Pro	Ser	Ala	Tyr	Thr	Ile	Leu	Phe	Phe
	50					55					60				
Leu	Ile	Ala	Val	Val	Ala	Val	Leu	Thr	Trp	Ile	Val	Pro	Ala	Gly	Gln
65					70					75					80
Tyr	His	Met	Ala	Met	Asn	Glu	Ala	Leu	Gly	Lys	Glu	Val	Pro	Val	Ala
				85					90					95	
Gly	Thr	Tyr	Ala	Gln	Val	Ala	Ser	His	Pro	Gln	Gly	Leu	Val	Ser	Val
			100					105					110		
Leu	Met	Ala	Pro	Ile	Ala	Gly	Leu	Tyr	Asp	Pro	Glu	Ser	Gly	Gln	Ala
		115					120					125			
Gly	Ala	Ile	Asp	Val	Ala	Leu	Phe	Ile	Leu	Ile	Ile	Gly	Gly	Phe	Leu
	130					135					140				
Gly	Ile	Val	Thr	Lys	Thr	Gly	Ala	Ile	Asp	Ala	Gly	Ile	Glu	Arg	Val
145					150					155					160
Thr	Thr	Arg	Leu	Arg	Gly	Arg	Glu	Glu	Trp	Met	Ile	Pro	Ile	Leu	Met
			165						170					175	
Ala	Leu	Phe	Ala	Ala	Gly	Gly	Thr	Ile	Tyr	Gly	Met	Ala	Glu	Glu	Ser
			180					185					190		
Leu	Pro	Phe	Tyr	Thr	Leu	Leu	Val	Pro	Val	Met	Leu	Ala	Ala	Arg	Phe
		195					200					205			
Asp	Pro	Val	Val	Ala	Ala	Ser	Thr	Val	Leu	Leu	Gly	Ala	Gly	Ile	Gly
	210					215					220				
Thr	Leu	Gly	Ser	Thr	Ile	Asn	Pro	Phe	Ala	Thr	Val	Ile	Ala	Ala	Asn
225					230					235					240
Ala	Ala	Gly	Ile	Pro	Phe	Thr	Asn	Gly	Ile	Ala	Leu	Arg	Leu	Ala	Leu
				245				250						255	
Leu	Val	Ile	Gly	Trp	Ile	Ile	Cys	Val	Ala	Trp	Val	Met	Arg	Tyr	Ala
		260					265						270		
Arg	Lys	Val	Arg	Lys	Asp	Pro	Ser	Leu	Ser	Ile	Val	Ala	Asp	Lys	Gln
		275					280					285			
Glu	Glu	Asn	Leu	Ala	His	Phe	Leu	Gly	Asn	Lys	Gly	Glu	Gln	Ser	Leu
	290					295					300				
Glu	Phe	Thr	Pro	Val	Arg	Lys	Leu	Ile	Leu	Val	Ile	Phe	Ala	Leu	Ala
305					310					315					320
Phe	Ala	Val	Met	Ile	Tyr	Gly	Val	Ala	Val	Leu	Gly	Trp	Trp	Met	Ala
			325					330						335	
Glu	Ile	Ser	Ala	Val	Phe	Leu	Ala	Ser	Ala	Ile	Ile	Val	Gly	Leu	Ile
			340				345						350		
Ala	Arg	Met	Ser	Glu	Glu	Glu	Leu	Thr	Ser	Thr	Phe	Ile	Asn	Gly	Ala
		355					360					365			
Arg	Asp	Leu	Leu	Gly	Val	Ala	Leu	Ile	Ile	Gly	Ile	Ala	Arg	Gly	Ile
	370					375					380				
Val	Val	Ile	Met	Asp	Lys	Gly	Met	Ile	Thr	His	Thr	Ile	Leu	His	Ser
385					390					395					400
Ala	Glu	Gly	Met	Val	Thr	Gly	Leu	Ser	Thr	Val	Ala	Phe	Ile	Asn	Val
			405					410						415	
Met	Tyr	Trp	Leu	Glu	Val	Val	Leu	Ser	Phe	Leu	Val	Pro	Ser	Ser	Ser
			420				425						430		
Gly	Leu	Ala	Val	Leu	Thr	Met	Pro	Ile	Met	Ala	Pro	Leu	Ala	Asp	Phe
		435				440						445			
Ala	Asn	Val	Asn	Arg	Asp	Leu	Val	Val	Thr	Ala	Tyr	Gln	Ser	Ala	Ser

450		455		460
Gly Ile Val Asn Leu Ile Thr Pro Thr Ser Ala Val Val Met Gly Gly				
465		470		475
Leu Ala Ile Ala Arg Val Pro Tyr Val Arg Tyr Leu Lys Trp Val Ala				
		485		490
Pro Leu Leu Gly Ile Leu Thr Val Val Ile Met Val Ala Leu Ser Leu				
		500		505
Gly Ala Leu Leu				510
		515		

<210> 9317
 <211> 100
 <212> PRT
 <213> Enterobacter cloacae

<400> 9317

Trp Leu Phe Ser His Ala Leu Tyr Ser Thr Arg Ser Leu Val Phe Pro	
1	5
Ala Ile Ser Val Trp Phe Ser Ser Thr Ile Leu Ser Trp Val Arg Val	
	20
Pro Val Leu Ser Val Gln Arg Met Ser Ile Ala Pro Lys Phe Trp Met	
	35
Ala Ser Arg Cys Leu Thr Ile Thr Phe Cys Leu Glu Ser Leu Thr Ala	
	50
Pro Arg Ala Ser Val Glu Val Thr Ile Ile Gly Ser Ile Ser Gly Val	
65	70
Lys Pro Thr Ala Thr Glu Ser Ala Asn Ser Ala Ala Ser His Gln Ser	
	85
Pro Leu Val	90
	100

<210> 9318
 <211> 822
 <212> PRT
 <213> Enterobacter cloacae

<400> 9318

Ser Tyr Phe Val Glu Ser Ser Ala Met Val Gly Glu Asn Lys Thr His	
1	5
Leu Thr Glu Thr Asp Ile Ile Thr Lys Tyr Ile Leu Pro Ala Val Lys	
	20
Thr Ala Gly Trp Asp Val Met Ser Gln Val Arg Gln Glu Val Lys Leu	
	35
Arg Asp Gly Lys Ile Val Val Arg Gly Lys Leu Ala Ser Arg Ile Lys	
	50
Val Lys Ser Ala Asp Ile Val Leu Tyr His Lys Pro Asn Leu Pro Leu	
65	70
Ala Val Ile Glu Ala Lys Ala Asn Lys His Ala Ile Ser Lys Gly Met	
	85
Gln Gln Gly Leu Asp Tyr Ala Ser Leu Leu Asp Val Pro Phe Val Phe	
	100
Ala Ser Asn Gly Asp Gly Phe Ile Phe His Asp Lys Thr Asn Pro Gln	
	115
Gln Leu Glu Ser Glu Ile Ala Leu Ser Asp Phe Pro Thr Pro Glu Gln	
	130
Leu Trp Gln Lys Tyr Cys Ala Trp Lys Gly Phe Thr Gln Glu Gln Leu	
145	150
Pro Val Ile Ser Gln Asp Tyr Tyr Asp Asp Gly Ser Gly Lys Ser Pro	
	165
Arg Tyr Tyr Gln Met Gln Ala Ile Asn Arg Thr Val Asp Ala Val Ser	
	180
	185
	190

Ala	Gly	Lys	Asn	Arg	Ile	Leu	Leu	Val	Met	Ala	Thr	Gly	Thr	Gly	Lys
		195					200					205			
Thr	Tyr	Thr	Ala	Phe	Gln	Ile	Ile	Trp	Arg	Leu	Trp	Lys	Ala	Lys	Asn
	210					215					220				
Lys	Lys	Arg	Ile	Leu	Phe	Leu	Ala	Asp	Arg	Asn	Ile	Leu	Val	Asp	Gln
225					230					235					240
Thr	Lys	Asn	Asn	Asp	Phe	Gln	Pro	Phe	Gly	Thr	Ala	Met	Thr	Lys	Val
				245					250					255	
Thr	Gly	Arg	Thr	Ile	Asp	Pro	Ala	Tyr	Glu	Val	His	Leu	Ala	Leu	Tyr
			260					265					270		
Gln	Ala	Ile	Thr	Gly	Pro	Glu	Glu	His	Gln	Lys	Ala	Tyr	Lys	Gln	Val
		275					280					285			
Asp	Pro	Asn	Phe	Phe	Asp	Leu	Ile	Val	Ile	Asp	Glu	Cys	His	Arg	Gly
	290					295					300				
Ser	Ala	Ser	Glu	Asp	Ser	Ala	Trp	Arg	Glu	Ile	Leu	Glu	Tyr	Phe	Gly
305					310					315					320
Ser	Ala	Thr	Gln	Val	Gly	Leu	Thr	Ala	Thr	Pro	Lys	Glu	Thr	Glu	Asp
				325					330					335	
Val	Ser	Asn	Ile	Asp	Tyr	Phe	Gly	Glu	Pro	Val	Tyr	Thr	Tyr	Ser	Leu
			340					345					350		
Lys	Glu	Gly	Ile	Glu	Asp	Gly	Phe	Leu	Ala	Pro	Tyr	Lys	Val	Val	Arg
		355					360					365			
Val	Asp	Ile	Asp	Val	Asp	Val	Gln	Gly	Trp	Arg	Pro	Val	Lys	Gly	Gln
	370					375					380				
Leu	Asp	Lys	Tyr	Gly	Glu	Glu	Ile	Glu	Asp	Arg	Ile	Tyr	Asn	Leu	Lys
385					390					395					400
Asp	Phe	Asp	Arg	Lys	Leu	Val	Ile	Asp	Glu	Arg	Thr	Met	Leu	Val	Ala
				405					410					415	
Gln	Thr	Ile	Thr	Asp	Tyr	Leu	Lys	Arg	Thr	Asn	Pro	Met	Asp	Lys	Thr
			420					425					430		
Ile	Val	Phe	Cys	Asn	Asp	Ile	Asp	His	Ala	Asp	Arg	Met	Arg	His	Ala
		435					440					445			
Leu	Val	Val	Leu	Asn	Pro	Glu	Gln	Val	Leu	Lys	Asn	Glu	Lys	Tyr	Val
	450					455					460				
Met	Lys	Ile	Thr	Gly	Asp	Asp	Asp	Ile	Gly	Lys	Ala	Gln	Leu	Asp	Asn
465					470					475					480
Phe	Ile	Asn	Pro	Lys	Lys	Ala	Tyr	Pro	Val	Ile	Ala	Thr	Thr	Ser	Glu
				485				490						495	
Leu	Met	Thr	Thr	Gly	Val	Asp	Ala	Gln	Thr	Cys	Lys	Leu	Val	Val	Leu
			500					505					510		
Asp	Gln	Asn	Ile	Gln	Ser	Met	Thr	Lys	Phe	Lys	Gln	Ile	Ile	Gly	Arg
		515					520					525			
Gly	Thr	Arg	Ile	Asn	Glu	Arg	His	Gly	Lys	Leu	Trp	Phe	Thr	Ile	Leu
	530					535					540				
Asp	Phe	Lys	Lys	Ala	Thr	Glu	Leu	Phe	Ala	Asp	Pro	Arg	Phe	Asp	Gly
545					550				555						560
Leu	Pro	Glu	Lys	Val	Leu	Val	Val	Lys	Pro	Gly	Asp	Ile	Ser	Asp	Glu
				565					570					575	
Ser	Ser	Asp	Phe	Asn	Glu	Arg	Leu	Asp	Glu	Glu	Thr	Thr	Asn	Asp	Asp
			580					585					590		
Gly	Asp	Asn	Pro	His	Asn	Glu	Met	Arg	Glu	Asp	Ala	Ala	Glu	Tyr	His
		595					600					605			
Val	Asn	Arg	Asp	Asn	His	Ser	Gly	Asn	Gly	Glu	Phe	His	Ser	Asp	Asp
	610					615					620				
Ala	Asp	Lys	Val	Arg	Lys	Phe	Tyr	Val	Asn	Gly	Val	Ala	Val	Lys	Val
625					630					635					640
Leu	Ala	Lys	Arg	Val	Gln	Tyr	Tyr	Asp	Ser	Asp	Gly	Lys	Leu	Val	Thr
				645					650					655	
Glu	Ser	Phe	Gln	Asp	Tyr	Thr	Arg	Lys	Thr	Met	Leu	Lys	Asp	Ser	Glu
			660					665					670		
Tyr	Ala	Ser	Leu	Asp	Ser	Phe	Val	Arg	Lys	Trp	Gln	Glu	Ala	Pro	Arg

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<210> 9319
<211> 305
<212> PRT
<213> Enterobacter cloacae
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Cys 1	Ser	Arg	Leu	Cys 5	Cys	Arg	Met	Ala	Leu 10	Arg	Pro	Asp	Ala	Leu 15	Thr
Pro	Ala	Leu	Ser	His	Gly	Glu	Arg	Glu	Asn	Thr	Gly	Ser	Ile	Ser	Leu
		20						25					30		
Ile	Phe	His	Pro	Glu	Lys	Gly	Thr	Phe	Ser	Pro	Ser	Phe	Gln	Arg	Gly
		35					40					45			
His	Ala	Ser	Ile	Met	Pro	Ile	Gln	Ser	Val	Glu	Arg	Ala	Leu	Gln	
		50				55				60					
Ile	Leu	Asp	Leu	Phe	Asn	Glu	Gln	Ala	Thr	Glu	Leu	Lys	Ile	Thr	Asp
65					70					75				80	
Ile	Ser	Lys	Leu	Met	Gly	Leu	Ser	Lys	Ser	Thr	Leu	His	Ser	Leu	Leu
				85					90					95	
Lys	Thr	Leu	Gln	Leu	His	Gly	Tyr	Ile	Asp	Gln	Asn	Pro	Glu	Asn	Gly
			100					105				110			
Lys	Tyr	Arg	Leu	Gly	Met	Lys	Leu	Val	Glu	Arg	Gly	His	Phe	Val	Val
		115					120					125			
Gly	Ser	Ile	Asp	Ile	Arg	Gln	Lys	Ala	Lys	Gly	Trp	Leu	Thr	Glu	Leu
		130				135					140				
Ser	Gln	Arg	Thr	Gly	Gln	Thr	Thr	His	Leu	Gly	Ile	Leu	Asp	Gly	Ser
145					150					155				160	
Glu	Gly	Val	Tyr	Ile	Glu	Lys	Ile	Glu	Gly	Lys	Leu	Ala	Ala	Ile	Ala
				165					170					175	
Tyr	Ser	Arg	Ile	Gly	Arg	Arg	Leu	Pro	Val	His	Ala	Thr	Ala	Ile	Gly
			180					185				190			
Lys	Val	Leu	Ile	Ala	Trp	Leu	Gly	Glu	Ala	Glu	Leu	Asn	Ala	Leu	Leu
		195					200					205			
Glu	Gly	Tyr	His	Tyr	Thr	Thr	Tyr	Thr	Pro	Ser	Thr	Leu	Ala	Ser	Arg
		210				215					220				
Glu	Ala	Leu	Met	Ala	Ala	Leu	Thr	Gln	Thr	Arg	Glu	Gln	Gly	Tyr	Ala
225					230					235				240	
Leu	Asp	Ser	Glu	Glu	Asn	Glu	Gln	Gly	Val	Arg	Cys	Val	Ala	Val	Pro
				245					250					255	
Val	Trp	Asn	His	Glu	Ser	Arg	Val	Ile	Ala	Ala	Leu	Ser	Leu	Ser	Thr
		260						265					270		
Leu	Thr	Ser	Arg	Val	Asp	Asp	Ala	Glu	Leu	Ala	Asn	Phe	Arg	Glu	Gln

	275		280		285
Leu	Gln	Gln	Ala	Gly	Leu
	290		295		300

305

<210> 9320

<211> 338

<212> PRT

<213> Enterobacter cloacae

<400> 9320

Lys	Phe	Ser	Arg	Trp	Ser	Trp	Leu	Ser	Ser	Ser	Ser	Ala	Glu	Leu	Glu
1				5					10					15	
Leu	Leu	Gln	Gln	Gly	Phe	Gln	Leu	Arg	Leu	Thr	Arg	Leu	Val	Gln	Arg
			20					25					30		
Arg	Gly	Gly	Arg	Gln	His	Val	Gly	Arg	Asn	Arg	Thr	Thr	Ala	Glu	His
		35					40					45			
Asn	Arg	Leu	Phe	Asn	Asn	Val	His	Lys	Arg	Arg	Ile	Gln	Leu	Ile	His
		50				55					60				
Leu	Arg	Asp	Leu	Gln	Gln	Gly	Leu	Met	Ile	Leu	Ser	Arg	Phe	Arg	His
					70					75					80
Val	Phe	Ile	Pro	Pro	Gly	Phe	Gln	Lys	Ile	Tyr	Arg	His	Leu	Trp	Gly
				85					90					95	
Lys	Val	Ala	Thr	Gly	Arg	Asp	Arg	Pro	Val	Ala	Ala	Glu	Gln	Gln	Gly
			100					105					110		
Ile	Lys	Gln	Met	Ile	Val	Val	Ala	Ala	Glu	His	Gly	Glu	Val	Arg	Met
			115				120					125			
Gly	Gly	Phe	Asp	Gly	Val	Asp	His	Ala	Ala	Gln	Val	Gly	Asn	Gly	Val
		130				135					140				
Asp	Gly	Val	Phe	Asp	Ala	Asp	Asp	Val	Ala	Ala	Arg	Val	Gly	Gln	Gly
					150					155					160
Phe	Asp	Gln	Arg	Arg	Gly	Gln	Ile	Leu	Pro	Gly	Gln	Arg	Arg	Glu	Val
				165					170					175	
Ile	Glu	His	His	Arg	Gln	Arg	Asp	Ala	Val	Arg	His	Leu	Leu	Glu	Ile
			180					185					190		
Ala	Asp	Gln	Val	Arg	Phe	Arg	His	Phe	Pro	Val	Val	Arg	Val	Asp	His
		195					200					205			
His	Asp	Thr	Val	Arg	Pro	Cys	Leu	Leu	Arg	Val	Leu	Ala	Gln	Leu	Asn
		210				215					220				
Gly	Phe	Pro	Gly	Val	Gly	Ala	Ala	Gly	Ala	Asp	Gln	Asp	Arg	His	Ala
					230					235					240
Thr	Ile	Asp	Met	Ile	Asp	Arg	Lys	Leu	Gly	Asn	Gly	Phe	Thr	Leu	Phe
				245					250					255	
Gly	Ala	Glu	Leu	Gly	Glu	Leu	Ala	Ala	Ala	Ala	Gln	Glu	Lys	Gln	Ala
			260				265						270		
Val	Asp	Ala	Cys	Phe	Asp	Gln	Ile	Val	Asp	Gln	Arg	Gly	Gly	Ala	Leu
		275					280					285			
Leu	Ile	Glu	Leu	Ala	Ile	Gly	Gly	Lys	Asn	Gly	Gly	Asp	Arg	Gly	Asn
		290				295					300				
Asp	Thr	Arg	Glu	Gln	Arg	Gly	Leu	Arg	His	Val	Ile	Ser	Leu	Leu	Asn
					310					315					320
His	Phe	Val	Leu	His	Cys	Arg	Thr	Val	Phe	Ile	Lys	Leu	Thr	Ile	Ile
				325					330					335	

Leu

<210> 9321

<211> 331

<212> PRT

<213> Enterobacter cloacae

<400> 9321

Thr	Tyr	Ser	Gln	Ser	Pro	Ser	Phe	Glu	Gly	Leu	Phe	Phe	Ala	Arg	Arg
1				5					10					15	
Gln	Glu	Ile	Asn	Met	Asn	Pro	Leu	Tyr	Gln	Lys	His	Ile	Ile	Ser	Ile
			20					25					30		
Asn	Asp	Leu	Ser	Arg	Glu	Glu	Leu	Glu	Leu	Val	Leu	Glu	Thr	Ala	Ala
		35					40					45			
Lys	Leu	Lys	Ala	Asn	Pro	Gln	Pro	Glu	Leu	Leu	Lys	His	Lys	Val	Ile
	50					55					60				
Ala	Ser	Cys	Phe	Phe	Glu	Ala	Ser	Thr	Arg	Thr	Arg	Leu	Ser	Phe	Glu
65					70					75					80
Thr	Ser	Met	His	Arg	Leu	Gly	Ala	Ser	Val	Val	Gly	Phe	Ser	Asp	Ser
				85					90					95	
Ser	Asn	Thr	Ser	Leu	Gly	Lys	Lys	Gly	Glu	Thr	Leu	Ala	Asp	Thr	Ile
			100					105					110		
Ser	Val	Ile	Ser	Thr	Tyr	Val	Asp	Ala	Ile	Val	Met	Arg	His	Pro	Gln
		115					120					125			
Glu	Gly	Ala	Ala	Arg	Leu	Ala	Thr	Glu	Phe	Ser	Gly	Gly	Ile	Pro	Val
	130					135					140				
Leu	Asn	Ala	Gly	Asp	Gly	Ala	Asn	Gln	His	Pro	Thr	Gln	Thr	Leu	Leu
145					150					155					160
Asp	Leu	Phe	Thr	Ile	Gln	Glu	Thr	Gln	Gly	Thr	Leu	Glu	Asn	Leu	Asn
				165					170					175	
Ile	Ala	Met	Val	Gly	Asp	Leu	Lys	Tyr	Gly	Arg	Thr	Val	His	Ser	Leu
			180					185					190		
Thr	Gln	Ala	Leu	Ala	Lys	Phe	Asn	Gly	Asn	Arg	Phe	Phe	Phe	Ile	Ala
		195					200					205			
Pro	Asp	Ala	Leu	Ala	Met	Pro	Gln	Tyr	Ile	Leu	Asp	Met	Leu	Asp	Glu
	210				215						220				
Lys	Gly	Ile	Ala	Trp	Ser	Leu	His	Ala	Ser	Ile	Glu	Glu	Val	Met	Gly
225					230					235					240
Asn	Val	Asp	Ile	Leu	Tyr	Met	Thr	Arg	Val	Gln	Lys	Glu	Arg	Leu	Asp
			245						250					255	
Pro	Ser	Glu	Tyr	Ala	Asn	Val	Lys	Ala	Gln	Phe	Val	Leu	Arg	Ala	Gly
		260						265					270		
Asp	Leu	Glu	Gly	Ala	Arg	Asp	Asn	Met	Lys	Val	Leu	His	Pro	Leu	Pro
	275						280					285			
Arg	Ile	Asp	Glu	Ile	Thr	Thr	Asp	Val	Asp	Lys	Thr	Pro	His	Ala	Trp
	290					295					300				
Tyr	Phe	Gln	Gln	Ala	Gly	Asn	Gly	Ile	Phe	Ala	Arg	Gln	Ala	Leu	Leu
305					310					315					320
Ala	Leu	Val	Leu	Asn	Arg	Glu	Leu	Ala	Leu						
				325					330						

<210> 9322

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 9322

Gly	Glu	Thr	Thr	Met	Thr	His	Asp	Asn	Lys	Leu	Gln	Val	Glu	Ala	Ile
1				5					10					15	
Lys	Arg	Gly	Thr	Val	Ile	Asp	His	Ile	Pro	Ala	Gln	Val	Gly	Phe	Lys
			20					25					30		
Leu	Leu	Thr	Leu	Phe	Lys	Leu	Thr	Glu	Thr	Asp	Gln	Arg	Ile	Thr	Ile
		35					40					45			
Gly	Leu	Asn	Leu	Pro	Ser	Gly	Glu	Met	Gly	Arg	Lys	Asp	Leu	Ile	Lys
	50					55					60				
Ile	Glu	Asn	Thr	Phe	Leu	Thr	Asp	Glu	Gln	Val	Asn	Gln	Leu	Ser	Leu
65					70					75					80

Tyr Ala Pro Asp Ala Thr Val Asn Arg Ile Asp Glu Tyr Glu Val Val
 85 90 95
 Gly Lys Ser Arg Pro Ser Leu Pro Glu Arg Ile Glu Ser Val Leu Val
 100 105 110
 Cys Pro Asn Ser Asn Cys Ile Ser His Ala Glu Pro Val Ser Ser Ser
 115 120 125
 Phe Ala Val Lys Lys Arg Ala Asn Asp Ile Ala Leu Lys Cys Lys Tyr
 130 135 140
 Cys Glu Lys Glu Phe Ser His Tyr Val Val Leu Ala Asn
 145 150 155

<210> 9323

<211> 598

<212> PRT

<213> Enterobacter cloacae

<400> 9323

Pro Ala Ala Arg Tyr Ser Trp Cys Ser Ser Gly Arg Gln Gln Gly Gly
 1 5 10 15
 Glu Leu Met Thr Val Glu Lys Leu Ile Thr Asp His Ile Asp Ile Trp
 20 25 30
 Ser Ser Ala Leu Gln Thr Arg Ser Thr Ala Gly Arg Gly Ser Asn Gly
 35 40 45
 Lys Ile Asp Leu Tyr Gly Ile Lys Lys Leu Arg Glu Leu Ile Leu Glu
 50 55 60
 Leu Ala Val Arg Gly Lys Leu Val Pro Gln Asp Pro Ser Asp Glu Pro
 65 70 75 80
 Ala Ser Glu Leu Leu Lys Arg Ile Ala Thr Glu Lys Ala Glu Leu Val
 85 90 95
 Lys Gln Gly Lys Ile Lys Lys Gln Lys Pro Leu Pro Glu Ile Ser Glu
 100 105 110
 Asp Glu Lys Pro Phe Glu Leu Pro Glu Gly Trp Glu Leu Asn Arg Leu
 115 120 125
 Gly Asp Leu Ile Asn Val Ile Asn Gly Arg Ala Tyr Lys Lys His Glu
 130 135 140
 Met Leu Gln Ala Gly Thr Pro Leu Leu Arg Val Gly Asn Leu Phe Thr
 145 150 155 160
 Ser Asn Glu Trp Tyr Tyr Ser Asp Leu Glu Leu Glu Pro Glu Lys Tyr
 165 170 175
 Ile Asp Asn Gly Asp Leu Ile Tyr Ser Trp Ser Ala Ser Phe Gly Pro
 180 185 190
 Phe Ile Trp Asn Gly Gly Lys Val Ile Tyr His Tyr His Ile Trp Lys
 195 200 205
 Met Asp Ile Phe Asp Thr Gln Ser Leu Asp Lys His Phe Met Lys Leu
 210 215 220
 Tyr Leu Glu Ser Val Ser Ala Ser Ile Lys Ala Ser Gly Asn Gly Ile
 225 230 235 240
 Ala Met Ile His Met Thr Lys Glu Arg Met Glu Lys Leu Val Ile Pro
 245 250 255
 Leu Pro Pro Arg Ala Glu Gln Leu Arg Ile Val Ala Lys Val Asn Glu
 260 265 270
 Leu Met Ser Leu Cys Asp Gln Leu Glu Gln Gln Ser Leu Thr Ser Leu
 275 280 285
 Asp Ala His Gln Gln Leu Val Glu Thr Leu Leu Ser Thr Leu Thr Asp
 290 295 300
 Cys Lys Asn Ala Glu Glu Leu Ala Glu Asn Trp Ala Arg Ile Ser Gln
 305 310 315 320
 Asn Phe Asp Thr Leu Phe Thr Thr Glu Ala Ser Ile Asp Val Leu Lys
 325 330 335
 Gln Thr Ile Leu Gln Leu Ala Val Met Gly Lys Leu Val Pro Gln Asp
 340 345 350

Pro Asn Asp Glu Pro Ala Ser Glu Leu Leu Lys Arg Ile Asp Gln Glu
 355 360 365
 Lys Ala Gln Leu Val Lys Glu Gly Arg Ile Lys Lys Gln Lys Pro Leu
 370 375 380
 Pro Pro Ile Ser Asp Asp Glu Lys Pro Phe Glu Leu Pro Glu Gly Trp
 385 390 395 400
 Glu Trp Cys Arg Leu Glu Thr Ile Thr Glu Leu Ile Thr Lys Gly Ser
 405 410 415
 Ser Pro Lys Trp Gln Gly Val Ser Tyr Thr Asp Asn Pro Asn Asp Val
 420 425 430
 Leu Phe Ile Thr Ser Glu Asn Val Gly Ser Phe Lys Ile Leu Leu Asp
 435 440 445
 Ser Glu Lys Tyr Val Glu Lys Lys Phe Asn Glu Ile Glu Pro Arg Ser
 450 455 460
 Ile Leu Thr His Asn Asp Ile Leu Met Asn Ile Val Gly Ala Ser Ile
 465 470 475 480
 Gly Arg Thr Ala Ile Phe Asn Met Asn Arg Asn Ala Asn Ile Asn Gln
 485 490 495
 Ala Val Cys Leu Ile Arg Val Ile Asn Asn Ser Met Leu Leu Ser Tyr
 500 505 510
 Leu Leu Asn Phe Phe Asn Ser Asp Ile Cys Leu Ser Tyr Met Phe Asp
 515 520 525
 Lys Gln Val Asp Asn Ala Arg Ala Asn Leu Ser Met Gly Asn Ile Ala
 530 535 540
 Lys Phe Val Leu Pro Ile Pro Pro Leu Asn Glu Gln Lys Arg Ile Val
 545 550 555 560
 Glu His Ile Asp Asn Leu Met Ser Ile Cys Asp Lys Leu Gln Ser His
 565 570 575
 Leu Gln Ser Val Gln Gln Ile Gln Leu His Leu Ala Asp Ala Leu Thr
 580 585 590
 Asp Ala Ala Leu Asn
 595

<210> 9324

<211> 346

<212> PRT

<213> Enterobacter cloacae

<400> 9324

Phe Asn Lys Trp His Ser Pro Cys Glu Asp Lys Met Ser Asp Leu Tyr
 1 5 10 15
 Lys Lys His Phe Leu Lys Leu Leu Asp Phe Thr Pro Ala Gln Phe Thr
 20 25 30
 Ser Leu Leu Thr Leu Ala Ala Gln Leu Lys Ala Asp Lys Lys Asn Gly
 35 40 45
 Lys Glu Val Gln Lys Leu Thr Gly Lys Asn Ile Ala Leu Ile Phe Glu
 50 55 60
 Lys Asp Ser Thr Arg Thr Arg Cys Ser Phe Glu Val Ala Ala Phe Asp
 65 70 75 80
 Gln Gly Ala Arg Val Thr Tyr Leu Gly Pro Ser Gly Ser Gln Ile Gly
 85 90 95
 His Lys Glu Ser Ile Lys Asp Thr Ala Arg Val Leu Gly Arg Met Tyr
 100 105 110
 Asp Gly Ile Gln Tyr Arg Gly His Gly Gln Glu Val Val Glu Thr Leu
 115 120 125
 Ala Gln Tyr Ala Gly Val Pro Val Trp Asn Gly Leu Thr Asn Glu Phe
 130 135 140
 His Pro Thr Gln Leu Leu Ala Asp Leu Leu Thr Met Gln Glu His Leu
 145 150 155 160
 Pro Gly Lys Ala Phe Asn Glu Met Thr Leu Val Tyr Ala Gly Asp Ala
 165 170 175

Arg Asn Asn Met Gly Asn Ser Met Leu Glu Ala Ala Ala Leu Thr Gly
 180 185 190
 Leu Asp Leu Arg Leu Val Ala Pro Lys Ala Cys Trp Pro Glu Glu Ser
 195 200 205
 Leu Val Ala Glu Cys Ser Ala Leu Ala Glu Lys His Gly Gly Lys Ile
 210 215 220
 Thr Leu Thr Glu Asn Val Ala Ala Gly Val Lys Gly Ala Asp Phe Ile
 225 230 235 240
 Tyr Thr Asp Val Trp Val Ser Met Gly Glu Ala Lys Glu Lys Trp Ala
 245 250 255
 Glu Arg Ile Ala Leu Leu Arg Gly Tyr Gln Val Asn Ala Gln Met Met
 260 265 270
 Ala Leu Thr Gly Asn Pro Asp Val Lys Phe Leu His Cys Leu Pro Ala
 275 280 285
 Phe His Asp Asp Gln Thr Thr Leu Gly Lys Gln Met Ala Lys Glu Phe
 290 295 300
 Asp Leu His Gly Gly Met Glu Val Thr Asp Glu Val Phe Glu Ser Ala
 305 310 315 320
 Ala Ser Ile Val Phe Asp Gln Ala Glu Asn Arg Met His Thr Ile Lys
 325 330 335
 Ala Val Met Val Ala Thr Leu Gly Glu
 340 345

<210> 9325

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 9325

Ser Ile Ala Asn Trp Ala Met Val Leu Arg Ser Ser Ala Pro Ser Trp
 1 5 10 15
 Glu Asn Ser Pro Pro Leu Pro Arg Lys Asn Arg Pro Ser Thr Pro Ala
 20 25 30
 Leu Ile Arg Ser Ser Ile Ser Ala Ala Val Pro Cys Leu Ser Ser Trp
 35 40 45
 Pro Ser Ala Val Lys Met Val Glu Thr Gly Gly Met Ile Pro Val Asn
 50 55 60
 Asn Ala Asp Cys Gly Met
 65 70

<210> 9326

<211> 425

<212> PRT

<213> Enterobacter cloacae

<400> 9326

Thr Pro His Met Ala His Ala Leu Phe Ile Leu Lys Lys Val Lys Gly
 1 5 10 15
 Ile Ile Met Glu Lys His Tyr Val Gly Ser Glu Ile Gly Gln Leu Arg
 20 25 30
 Ser Val Met Leu His Arg Pro Asn Leu Ser Leu Lys Arg Leu Thr Pro
 35 40 45
 Ser Asn Cys Gln Glu Leu Leu Phe Asp Asp Val Leu Ser Val Glu Arg
 50 55 60
 Ala Gly Glu Glu His Asp Ile Phe Ala Asn Thr Leu Arg Glu Gln Gly
 65 70 75 80
 Val Glu Val Leu Leu Leu Thr Asp Leu Leu Thr Gln Ser Leu Asp Ile
 85 90 95
 Ala Glu Ala Lys Ala Trp Leu Leu Glu Thr Gln Ile Ser Asp Tyr Arg
 100 105 110
 Leu Gly Pro Thr Phe Ala Ala Asp Val Arg Gly Trp Leu Ala Asp Met

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<210> 9327
<211> 342
<212> PRT
<213> Enterobacter cloacae
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Gln 1	Phe	Lys	Lys	Asp 5	Phe	Pro	Met	Thr	Ile 10	Asn	Leu	Lys	Asn	Arg 15	Asn
Phe	Leu	Lys	Leu 20	Leu	Asp	Tyr	Thr	Pro 25	Ala	Glu	Ile	Gln	Tyr 30	Leu	Ile
Asp	Leu	Ala 35	Ile	Glu	Leu	Lys	Ala 40	Ala	Lys	Lys	Ala	Gly 45	Arg	Glu	Lys
Gln 50	Thr	Leu	Val	Gly	Lys 55	Asn	Ile	Ala	Leu	Ile	Phe 60	Glu	Lys	Thr	Ser
Thr 65	Arg	Thr	Arg	Cys 70	Ala	Phe	Glu	Val	Gly 75	Ala	Phe	Asp	Gln	Gly 80	Ala
Gln	Val	Thr	Tyr 85	Leu	Gly	Pro	Ser	Gly 90	Ser	Gln	Ile	Gly	His 95	Lys	Glu
Ser	Met	Lys	Asp 100	Thr	Ala	Arg	Val	Leu 105	Gly	Arg	Met	Tyr	Asp 110	Gly	Ile
Glu	Tyr	Arg	Gly	Tyr	Gly	Gln	Ala	Ile	Val	Glu	Glu	Leu	Gly	Glu	Tyr

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<210> 9328
<211> 236
<212> PRT
<213> Enterobacter cloacae
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Pro	Asp	His	Ser	His	Leu	Cys	Arg	Arg	Asp	Gly	Arg	Ala	Gly	Tyr	Arg
1				5					10					15	
Pro	Arg	Ala	Leu	Arg	Ala	Leu	Ser	Glu	Met	Gly	Arg	Ala	Ala	Ala	Gly
			20					25					30		
Asp	Phe	Asn	Gly	Gly	Asp	Tyr	Gly	Gly	Val	Lys	Pro	Gly	Arg	Phe	Val
		35					40					45			
Val	Ile	Cys	Arg	Met	Ala	Leu	Arg	Leu	Ser	Gly	Leu	Arg	Ile	Gly	Ala
	50					55					60				
Val	Pro	Pro	Val	Ile	Ser	Gly	Thr	Asp	Met	Gly	Thr	Met	Met	Asp	Tyr
65					70					75				80	
Glu	Glu	Tyr	Ser	Pro	Lys	Glu	Gln	Leu	Gln	Leu	Thr	Val	Cys	Gln	Arg
				85					90					95	
Leu	Ile	Ala	Glu	Lys	Ser	Tyr	Leu	Ser	Gln	Glu	Glu	Ile	Arg	Arg	Asp
			100					105					110		
Leu	Gln	Glu	Arg	Gly	Phe	Glu	Thr	Ile	Ser	Gln	Ser	Thr	Val	Ser	Arg
			115				120					125			
Leu	Leu	Lys	Leu	Leu	Gly	Val	Ile	Lys	Ile	Arg	Asn	Ala	Lys	Gly	Leu
	130					135					140				
Lys	Ile	Tyr	Ser	Leu	Asn	Pro	Gln	Leu	Arg	Pro	Ala	Pro	Asp	Ala	Ala
145					150					155				160	
Arg	Thr	Val	Ser	Glu	Met	Val	Val	Ser	Val	Glu	His	Asn	Ser	Glu	Phe
				165					170					175	
Ile	Leu	Ile	His	Thr	Val	Ala	Gly	Tyr	Gly	Arg	Ala	Val	Ala	Arg	Ile
			180					185					190		
Leu	Asp	Tyr	His	Gln	Leu	Pro	Glu	Ile	Leu	Gly	Val	Val	Ala	Gly	Ser

	195		200		205
Ser	Ile Val Trp Val Ala Pro	Arg Ile Val Lys	Arg Thr Ala Leu Val		
	210	215	220		
His	Lys Gln Ile Asn Tyr	Leu Leu Arg Thr His			
225	230	235			

<210> 9329

<211> 136

<212> PRT

<213> Enterobacter cloacae

<400> 9329

Arg	Cys	Asn	Ser	Gly	Glu	Lys	Met	Ser	Lys	Val	Leu	Ala	Thr	Glu	Asn
1				5					10					15	
Ala	Pro	Ala	Ala	Ile	Gly	Pro	Tyr	Val	Gln	Gly	Val	Asp	Leu	Gly	Ser
		20				25						30			
Met	Ile	Ile	Thr	Ser	Gly	Gln	Ile	Pro	Val	Asn	Pro	Lys	Thr	Gly	Glu
		35				40						45			
Val	Pro	Ala	Asp	Val	Ala	Ala	Gln	Ala	Arg	Gln	Ser	Leu	Glu	Asn	Val
	50				55						60				
Gln	Ala	Ile	Val	Glu	Ser	Ala	Gly	Leu	Lys	Val	Gly	Asp	Ile	Val	Lys
65				70					75						80
Thr	Thr	Val	Phe	Val	Lys	Asp	Leu	Asn	Asp	Phe	Ala	Thr	Val	Asn	Ala
				85					90					95	
Thr	Tyr	Glu	Ala	Phe	Phe	Thr	Glu	His	Asn	Ala	Thr	Phe	Pro	Ala	Arg
			100					105					110		
Ser	Cys	Val	Glu	Val	Ala	Arg	Leu	Pro	Lys	Asp	Val	Lys	Ile	Glu	Ile
		115					120					125			
Glu	Ala	Ile	Ala	Val	Arg	Arg									
	130					135									

<210> 9330

<211> 483

<212> PRT

<213> Enterobacter cloacae

<400> 9330

Met	Lys	Leu	Ser	Lys	Ile	Ala	Leu	Ala	Val	Thr	Thr	Leu	Thr	Val	Ala
1				5					10					15	
Ser	Ser	Ala	Leu	Ala	His	Gly	Tyr	Ile	Glu	Ser	Pro	Ala	Ser	Arg	Ala
		20					25						30		
Tyr	Met	Cys	Lys	Leu	Gly	Gln	Asn	Ile	Asp	Cys	Gly	Ser	Val	Gln	Tyr
		35				40						45			
Glu	Pro	Gln	Ser	Val	Glu	Lys	Thr	Ser	Gly	Phe	Pro	Thr	Gly	Ala	Met
	50				55						60				
Pro	Pro	Asp	Gly	Gln	Leu	Ala	Ser	Ala	Gly	Ile	Ala	Ser	Tyr	Ser	Gln
65				70					75						80
Leu	Asp	Lys	Gln	Ser	Leu	Asn	Ala	Trp	Thr	Lys	Asn	Pro	Met	Thr	Ala
				85					90					95	
Gly	Pro	His	Glu	Phe	Val	Trp	His	His	Thr	Ala	Pro	His	Lys	Thr	Thr
		100					105						110		
Asn	Trp	Arg	Tyr	Tyr	Ile	Thr	Lys	Gln	Asn	Trp	Asp	Pro	Asn	Lys	Pro
		115					120					125			
Leu	Thr	Arg	Asp	Gln	Phe	Glu	Leu	Thr	Pro	Phe	Cys	Thr	Ile	Asn	Gly
	130					135					140				
Asn	Gly	Gln	Ala	Pro	Ala	Met	Thr	Lys	Ser	Met	Thr	Cys	Asn	Val	Pro
145				150					155						160
Glu	Arg	Thr	Gly	Tyr	Gln	Val	Ile	Tyr	Gly	Val	Trp	Glu	Ile	Ala	Asp
				165					170					175	
Thr	Ala	Asn	Ser	Phe	Tyr	Gln	Ala	Ile	Asp	Val	Asp	Phe	Gly	Asn	Gly
		180						185					190		

Gly Asn Val Thr Pro Asp Asp Thr Pro Ala Val Ile Ser Gln Trp Ser
 195 200 205
 Lys Thr Leu Ser Gly Gln Ile Ala Gly Asn Asn Leu Asn Thr Gly Asp
 210 215 220
 Arg Val Ile Ala Arg Phe Phe Asp Ala Asn Gly Glu Val Ala Ala Leu
 225 230 235 240
 Arg Thr Glu Leu Thr Ile Gly Ser Val Ala Gln Gly Asp Thr Asn Gln
 245 250 255
 Trp Ser Tyr Asp Leu Ala Gln Lys Ile Asn Ala Ala Tyr Ser Asp Val
 260 265 270
 Arg Val Gly Val Lys Asp Glu Ala Gly Glu Ile Ser Pro Val His Gly
 275 280 285
 Ala Asn Ser Val Phe Val Lys Asp Gly Ser Ala Leu Gln Ser Val Ala
 290 295 300
 Ile Ser Tyr Glu Glu Gln Lys Ala Glu Val Asn Glu Thr Ile Ala Val
 305 310 315 320
 Ser Asn Pro His Tyr Ser Lys Ile Glu Asn Gly Lys Ala Ser Val Thr
 325 330 335
 Phe His Val Asn Thr Lys Gly Asp Val Asn Val Glu Ala His Val Met
 340 345 350
 Asn His Ser Gly Ala Glu Lys Gly Tyr Leu Lys Gln Glu Met Asn Asn
 355 360 365
 Ala Ser Gln Asp Val Thr Met Thr Leu Thr Asp Val Thr Ala Gly His
 370 375 380
 His Met Leu Lys Tyr Tyr Ala Thr Asn Lys Asp Gly Thr Leu Phe Ala
 385 390 395 400
 Gln Asp Val Leu Asp Leu Met Leu Glu Ser Asp Ala Ala Asp Ser Asn
 405 410 415
 Gly Pro His Asp Phe Ile Phe Pro Asp Asn Val Ala Ser Tyr Lys Ala
 420 425 430
 Gly Thr Val Val Leu Gln Pro Lys Asp Gly Lys Thr Tyr Glu Cys Arg
 435 440 445
 Pro Val Pro Phe Ser Gly Tyr Cys Val Gln Tyr Ser Pro Thr Ala Asn
 450 455 460
 Gln Phe Glu Pro Gly Val Gly Ala His Trp Arg Glu Ala Trp Val Leu
 465 470 475 480
 Lys Asp

<210> 9331

<211> 326

<212> PRT

<213> Enterobacter cloacae

<400> 9331

Leu Phe Tyr Arg Cys Tyr Arg Glu Tyr Ser Met Gln Asn Arg Leu Thr
 1 5 10 15
 Ile Lys Asp Ile Ala Arg Leu Ser Gly Val Gly Lys Ser Thr Val Ser
 20 25 30
 Arg Val Leu Asn Asn Glu Ser Gly Val Ser Glu Arg Thr Arg Glu Arg
 35 40 45
 Val Glu Ala Val Met Asn Gln His Gly Phe Ser Pro Ser Arg Ser Ala
 50 55 60
 Arg Ala Met Arg Gly Gln Ser Asp Lys Val Val Ala Ile Ile Val Ser
 65 70 75 80
 Arg Leu Asp Ser Leu Ser Glu Asn Leu Ala Val Gln Thr Met Leu Pro
 85 90 95
 Ala Phe Tyr Glu Gln Gly Tyr Asp Pro Ile Met Met Glu Ser Lys Phe
 100 105 110
 Ser Ala Gln Met Val Glu Glu His Leu Gly Met Leu Gln Arg Arg Asn
 115 120 125

Ile Asp Gly Val Val Leu Phe Gly Phe Thr Gly Leu Lys Glu Asp Val
 130 135 140
 Leu Lys Pro Trp Gln Pro Ser Leu Val Leu Leu Ala Arg Asp Ala Ser
 145 150 155 160
 Gly Phe Ala Ser Val Cys Tyr Asp Asp Glu Gly Ala Ile Val Ile Leu
 165 170 175
 Met Gln Arg Leu Tyr Glu Gln Gly His Arg His Ile Ser Tyr Leu Gly
 180 185 190
 Val Pro His Ala Asp Ile Thr Thr Gly Lys Arg Arg His Glu Ala Tyr
 195 200 205
 Leu Ala Phe Cys Lys Lys His Asn Leu Pro Ala Val Ala Ala Leu Pro
 210 215 220
 Gly Leu Gly Met Lys Gln Gly Tyr Glu Gln Val Ala Ser Val Leu Thr
 225 230 235 240
 Pro Gln Thr Thr Ala Leu Val Cys Ala Thr Asp Thr Leu Ala Leu Gly
 245 250 255
 Ala Ser Lys Tyr Leu Gln Glu Gln Arg Ile Gly Glu Leu Gln Leu Ala
 260 265 270
 Ser Val Gly Ser Thr Pro Leu Met Lys Phe Leu His Pro Glu Ile Ile
 275 280 285
 Ser Val Asp Pro Gly Tyr Ala Glu Ser Gly Arg Gln Ala Ala Ala Gln
 290 295 300
 Leu Ile Glu Gln Ile Asn Gly Arg Ala Glu Pro Arg Gln Ile Val Ile
 305 310 315 320
 Pro Ala Arg Leu Ser
 325

<210> 9332

<211> 424

<212> PRT

<213> Enterobacter cloacae

<400> 9332

Leu Ser Gln Glu Met Arg Met Leu Lys Arg Glu Met Asn Ile Ala Asp
 1 5 10 15
 Tyr Asp Ala Glu Leu Trp Gln Ala Met Glu Gln Glu Lys Val Arg Gln
 20 25 30
 Glu Glu His Ile Glu Leu Ile Ala Ser Glu Asn Tyr Thr Ser Pro Arg
 35 40 45
 Val Met Gln Ala Gln Gly Ser Gln Leu Thr Asn Lys Tyr Ala Glu Gly
 50 55 60
 Tyr Pro Gly Lys Arg Tyr Tyr Gly Gly Cys Glu Tyr Val Asp Ile Val
 65 70 75 80
 Glu Gln Leu Ala Ile Asp Arg Ala Lys Glu Leu Phe Gly Ala Asp Tyr
 85 90 95
 Ala Asn Val Gln Pro His Ser Gly Ser Gln Ala Asn Phe Ala Val Tyr
 100 105 110
 Thr Ala Leu Leu Gln Pro Gly Asp Thr Val Leu Gly Met Asn Leu Ala
 115 120 125
 Gln Gly Gly His Leu Thr His Gly Ser Pro Val Asn Phe Ser Gly Lys
 130 135 140
 Leu Tyr Asn Ile Ile Pro Tyr Gly Ile Asp Glu Ser Gly Lys Ile Asp
 145 150 155 160
 Tyr Glu Asp Met Ala Lys Gln Ala Lys Glu His Lys Pro Lys Met Ile
 165 170 175
 Ile Gly Gly Phe Ser Ala Tyr Ser Gly Ile Val Asp Trp Ala Lys Met
 180 185 190
 Arg Glu Ile Ala Asp Ser Ile Gly Ala Tyr Leu Phe Val Asp Met Ala
 195 200 205
 His Val Ala Gly Leu Ile Ala Ala Gly Val Tyr Pro Asn Pro Val Pro
 210 215 220

His Ala His Val Val Thr Thr Thr Thr His Lys Thr Leu Ala Gly Pro
 225 230 235 240
 Arg Gly Gly Leu Ile Leu Ala Lys Gly Gly Asp Glu Glu Leu Tyr Lys
 245 250 255
 Lys Leu Asn Ser Ala Val Phe Pro Ser Ala Gln Gly Gly Pro Leu Met
 260 265 270
 His Val Ile Ala Ala Lys Ala Val Ala Leu Lys Glu Ala Met Glu Pro
 275 280 285
 Glu Phe Lys Val Tyr Gln Gln Gln Val Ala Lys Asn Ala Lys Ala Met
 290 295 300
 Val Glu Val Phe Leu Asn Arg Gly Tyr Lys Val Val Ser Gly Gly Thr
 305 310 315 320
 Glu Asn His Leu Phe Leu Leu Asp Leu Val Asp Lys Asn Leu Thr Gly
 325 330 335
 Lys Glu Ala Asp Ala Ala Leu Gly Arg Ala Asn Ile Thr Val Asn Lys
 340 345 350
 Asn Ser Val Pro Asn Asp Pro Lys Ser Pro Phe Val Thr Ser Gly Ile
 355 360 365
 Arg Ile Gly Ser Pro Ala Val Thr Arg Arg Gly Phe Lys Glu Ala Glu
 370 375 380
 Val Lys Glu Leu Ala Gly Trp Met Cys Asp Val Leu Asp Asn Ile Asn
 385 390 395 400
 Asp Asp Ala Val Ile Glu Arg Val Lys Gly Lys Val Leu Asp Ile Cys
 405 410 415
 Ala Arg Phe Pro Val Tyr Ala
 420

<210> 9333

<211> 402

<212> PRT

<213> Enterobacter cloacae

<400> 9333

Arg Ala Asn Asp Leu Leu Lys Ser Gly Ile Asn Ala Arg Leu Ser Pro
 1 5 10 15
 Pro Phe Arg Glu Gly Phe Met Val Leu His Ser Thr Arg Trp Leu Ala
 20 25 30
 Leu Ser Tyr Phe Thr Tyr Phe Phe Ser Tyr Gly Ile Phe Leu Pro Phe
 35 40 45
 Trp Ser Val Trp Leu Lys Gly Ile Gly Leu Thr Pro Glu Thr Ile Gly
 50 55 60
 Ile Leu Leu Gly Ala Gly Leu Val Ala Arg Phe Leu Gly Ser Leu Leu
 65 70 75 80
 Ile Ala Pro Arg Val Ser Asp Pro Ser Leu Leu Ile Lys Ala Val Arg
 85 90 95
 Ile Leu Ala Leu Leu Thr Leu Val Phe Ala Val Cys Phe Trp Val Ser
 100 105 110
 His Gln Phe Ala Trp Leu Met Val Val Met Val Gly Phe Asn Leu Phe
 115 120 125
 Phe Ser Pro Leu Val Pro Leu Thr Asp Ala Leu Ala Asn Thr Trp Gln
 130 135 140
 Lys Gln Ile Thr Met Asp Tyr Gly Arg Val Arg Leu Trp Gly Ser Ile
 145 150 155 160
 Ala Phe Val Ile Gly Ser Ala Leu Val Gly Lys Leu Val Ser Leu Tyr
 165 170 175
 Asp Tyr Arg Ala Ile Leu Ala Leu Leu Thr Leu Gly Ile Ala Ser Met
 180 185 190
 Leu Leu Gly Met Leu Leu Arg Pro Ser Val Met Pro Gln Gly Glu Ser
 195 200 205
 Arg His Gln Glu Ser Ala Gly Trp Pro Ala Trp Arg Ser Leu Val Ala
 210 215 220

Gln Ser Trp Arg Phe Leu Ala Cys Val Cys Leu Leu Gln Gly Ala His
 225 230 235 240
 Ala Ala Tyr Tyr Gly Phe Ser Ala Ile Tyr Trp Gln Gly Ala Gly Tyr
 245 250 255
 Ser Ala Ser Ala Val Gly Tyr Leu Trp Ser Leu Gly Val Val Ala Glu
 260 265 270
 Val Ile Ile Phe Ala Leu Ser Gln Lys Leu Phe Arg Arg Phe Gly Ala
 275 280 285
 Arg Asp Leu Leu Leu Leu Ser Ala Val Cys Gly Val Ala Arg Trp Gly
 290 295 300
 Ile Met Gly Trp Thr Thr Glu Leu Pro Trp Leu Ile Val Ala Gln Ile
 305 310 315 320
 Leu His Cys Gly Thr Phe Thr Val Cys His Leu Ala Ala Met Arg Tyr
 325 330 335
 Ile Ala Ala Arg Glu Gly Gly Asp Val Ile Arg Leu Gln Ala Val Tyr
 340 345 350
 Ser Ala Val Ala Met Gly Gly Ser Ile Ala Val Met Thr Val Phe Ala
 355 360 365
 Gly Phe Leu Tyr Gln His Leu Gly His Gly Val Phe Trp Val Met Ala
 370 375 380
 Leu Val Ala Leu Pro Ala Ile Val Ile Arg Pro Lys Val Ala Ala Arg
 385 390 395 400
 Thr

<210> 9334
 <211> 111
 <212> PRT
 <213> Enterobacter cloacae

<400> 9334
 Gly Leu Ser Met Ser Ile Thr Leu Ser Asp Ser Ala Ala Ala Arg Val
 1 5 10 15
 Ser Ser Phe Leu Ala Asn Arg Gly Lys Gly Phe Gly Leu Arg Leu Gly
 20 25 30
 Val Arg Thr Ser Gly Cys Ser Gly Met Ala Tyr Val Leu Glu Phe Val
 35 40 45
 Asp Glu Pro Ala Ser Asp Asp Thr Val Phe Glu Asp Lys Gly Val Lys
 50 55 60
 Val Val Val Asp Gly Lys Ser Leu His Phe Leu Asn Gly Thr Gln Leu
 65 70 75 80
 Asp Phe Val Lys Glu Gly Leu Asn Glu Gly Phe Lys Phe Thr Asn Pro
 85 90 95
 Asn Val Lys Asp Glu Cys Gly Cys Gly Glu Ser Phe His Val
 100 105 110

<210> 9335
 <211> 632
 <212> PRT
 <213> Enterobacter cloacae

<400> 9335
 Thr Thr Arg Arg Lys Ala Ala Arg Phe Leu Ile Ser Glu Ala Ile Met
 1 5 10 15
 Ala Leu Leu Gln Ile Ser Glu Pro Gly Leu Ser Ala Ala Pro His Gln
 20 25 30
 Arg Arg Leu Ala Val Gly Ile Asp Leu Gly Thr Thr Asn Ser Leu Val
 35 40 45
 Ala Thr Val Arg Ser Gly Gln Ala Glu Thr Leu Ala Asp Glu Gln Gly
 50 55 60
 Arg His Leu Leu Pro Ser Val Val His Tyr Gln Gln Gln Gly His Ala


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<210> 9336
<211> 1661
<212> PRT
<213> Enterobacter cloacae
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Pro 1	Thr	Gly	Pro	Ser 5	Gly	Gln	Gly	His	Arg 10	Met	Lys	Pro	Phe	Arg 15	Leu
Ala	Ala	Ile	Ser 20	Leu	Ala	Leu	Leu	Thr 25	Thr	Phe	Thr	Leu	Val 30	Gly	Cys
Asp	Asn	Ser 35	Asp	Asp	Lys	Pro	Gln 40	Ala	Ala	Ala	Pro	Ala 45	Ala	Ser	Thr
Ala	Ser 50	Glu	Gln	Lys	Thr	Pro 55	Ala	Thr	Pro	Asp	Pro 60	Glu	Lys	Leu	Ala
Lys 65	Leu	Ala	Ala	Gln	Ser 70	Gln	Gly	Lys	Ala	Leu	Thr 75	Leu	Leu	Asp	Ala 80
Ser	Glu	Val	Gln	Leu 85	Asp	Gly	Ala	Ala	Thr 90	Leu	Val	Leu	Thr	Phe 95	Ser
Val	Pro	Leu	Asp 100	Pro	Ser	Gln	Asp	Phe 105	Ala	Lys	Thr	Val	His 110	Val	Val
Asp	Lys	Lys 115	Ser	Gly	Lys	Val	Asp 120	Gly	Ala	Trp	Glu	Leu 125	Ala	Pro	Asn
Leu	Lys 130	Glu	Leu	Arg	Leu	Arg 135	His	Leu	Glu	Pro	Asn 140	Arg	Asn	Leu	Val
Val 145	Thr	Val	Glu	Arg 150	Asp	Leu	Leu	Ala	Leu	Asn 155	Lys	Ala	Thr	Phe 160	Gly
Ile	Asp	Tyr	Glu 165	Lys	Ala	Ile	Thr	Thr	Arg 170	Asp	Val	Glu	Pro	Thr 175	Val
Gly	Phe	Ala	Ser 180	Arg	Gly	Ser	Leu 185	Leu	Pro	Gly	Lys	Val 190	Val	Glu	Gly
Leu	Pro 195	Val	Met	Ala	Leu	Asn 200	Val	Asn	Asn	Val	Asp 205	Val	Asn	Phe	Tyr
Arg	Val 210	Lys	Pro	Glu	Ser	Leu 215	Ala	Ser	Phe	Val	Ser 220	Gln	Trp	Glu	Tyr
Arg 225	Asn	Ser	Leu	Thr 230	Asn	Trp	Glu	Ser	Asp	Asn 235	Leu	Leu	Lys	Met	Ala 240
Glu	Leu	Val	Tyr 245	Thr	Gly	Arg	Phe	Asp	Leu 250	Asn	Pro	Ala	Arg	Asn 255	Thr
Arg	Glu	Lys	Leu 260	Leu	Leu	Pro	Leu	Lys 265	Asp	Ile	Lys	Pro	Leu	Gln	Gln
Ser	Gly 275	Val	Tyr	Ile	Ala	Val	Met 280	Asn	Gln	Ala	Gly	His 285	Tyr	Asn	Tyr
Ser	Asn 290	Ala	Ala	Thr	Leu	Phe 295	Thr	Leu	Ser	Asp	Ile 300	Gly	Leu	Ser	Ala
His 305	Arg	Tyr	His	Asn 310	Arg	Leu	Asp	Ile	Phe	Thr 315	Gln	Ser	Leu	Glu	Asn 320
Gly	Ala	Ala	Gln 325	Ser	Gly	Val	Thr	Ile	Thr 330	Leu	Leu	Asn	Asp	Lys 335	Gly
Gln	Thr	Leu	Ala 340	Glu	Ala	Asn	Ser	Asp 345	Ala	Asp	Gly	His 350	Ala	Lys	Leu

Glu	Thr	Asp	Lys	Glu	Ala	Ala	Leu	Ile	Leu	Ala	Ser	Lys	Asp	Gly	Gln
		355					360					365			
Thr	Thr	Leu	Leu	Asp	Leu	Lys	Leu	Pro	Ala	Leu	Asp	Leu	Ala	Glu	Phe
		370				375					380				
Asp	Ile	Ala	Gly	Asn	Pro	Gly	Tyr	Ser	Lys	Gln	Phe	Phe	Met	Phe	Gly
385					390					395					400
Pro	Arg	Asp	Leu	Tyr	Arg	Pro	Gly	Glu	Thr	Val	Ile	Leu	Asn	Gly	Leu
			405						410					415	
Leu	Arg	Asp	Ser	Asp	Gly	Lys	Pro	Leu	Pro	Asp	Gln	Pro	Val	Lys	Leu
			420						425				430		
Asp	Val	Leu	Arg	Pro	Asp	Gly	Gln	Val	Ala	Arg	Thr	Val	Val	Val	Gln
		435					440					445			
Pro	Glu	Asn	Gly	Leu	Tyr	Arg	Phe	Asn	Tyr	Ser	Leu	Asp	Ser	Gly	Ala
		450				455					460				
Gln	Thr	Gly	Met	Trp	His	Ile	Arg	Ala	Asn	Thr	Gly	Asp	Asn	Gln	Gln
465					470					475					480
Arg	Met	Trp	Asp	Phe	His	Val	Glu	Asp	Phe	Met	Pro	Glu	Arg	Met	Ala
			485						490					495	
Leu	Asn	Leu	Thr	Gly	Gln	Lys	Thr	Pro	Val	Ser	Pro	Gln	Glu	Asp	Val
			500						505				510		
Asp	Phe	Asn	Val	Val	Gly	Tyr	Tyr	Leu	Tyr	Gly	Ala	Pro	Ala	Asn	Gly
		515					520					525			
Asn	Ser	Leu	Gln	Gly	Gln	Leu	Phe	Leu	Arg	Pro	Leu	Arg	Asp	Ala	Val
		530				535					540				
Pro	Ala	Leu	Pro	Gly	Phe	Gln	Phe	Gly	Asp	Ile	Ala	Glu	Glu	Asn	Leu
545					550					555					560
Ser	Arg	Ser	Leu	Asp	Glu	Val	Gln	Leu	Thr	Leu	Asp	Glu	Gln	Gly	Arg
				565					570					575	
Gly	Gln	Val	Thr	Thr	Glu	Ser	Gln	Trp	Lys	Glu	Ala	His	Ser	Pro	Leu
			580					585					590		
Gln	Leu	Ile	Leu	Gln	Ala	Ser	Leu	Leu	Glu	Ser	Gly	Gly	Arg	Pro	Val
		595					600					605			
Thr	Arg	Arg	Ala	Glu	Gln	Ala	Ile	Trp	Pro	Ala	Ala	Glu	Leu	Pro	Gly
		610				615					620				
Ile	Arg	Pro	Gln	Phe	Ala	Ser	Lys	Ala	Val	Tyr	Asp	Tyr	Arg	Thr	Asp
625					630					635					640
Thr	Thr	Val	Asn	Gln	Pro	Ile	Val	Asp	Glu	Asn	Gly	Asn	Ala	Ser	Phe
			645						650					655	
Asp	Ile	Val	Tyr	Ala	Asp	Ala	Ser	Gly	Ala	Lys	Lys	Ala	Val	Ser	Gly
			660					665					670		
Leu	Gln	Val	Arg	Leu	Ile	Arg	Glu	Arg	Arg	Asp	Tyr	Phe	Trp	Asn	Trp
		675					680					685			
Ser	Glu	Ser	Glu	Gly	Trp	Gln	Ser	Gln	Phe	Asp	Gln	Lys	Asp	Leu	Val
		690				695					700				
Glu	Gly	Glu	Gln	Glu	Leu	Asn	Leu	Lys	Ala	Asp	Glu	Thr	Gly	Lys	Val
705					710					715					720
Thr	Phe	Pro	Val	Glu	Trp	Gly	Ser	Tyr	Arg	Leu	Glu	Val	Lys	Ala	Pro
				725					730					735	
Asp	Asp	Met	Val	Ser	Ser	Val	Arg	Phe	Trp	Ala	Gly	Tyr	Ser	Trp	Gln
			740					745					750		
Asp	Asn	Ser	Asp	Gly	Thr	Gly	Ala	Ala	Arg	Pro	Asp	Arg	Val	Thr	Leu
		755					760					765			
Lys	Leu	Asp	Lys	Pro	Ser	Tyr	Gln	Pro	Gly	Asp	Thr	Ile	Gln	Leu	His
		770				775					780				
Ile	Ala	Ala	Pro	Ala	Ala	Gly	Lys	Gly	Tyr	Ala	Met	Ile	Glu	Ser	Ser
785					790					795					800
Glu	Gly	Pro	Leu	Trp	Lys	Glu	Ile	Asp	Val	Pro	Ala	Asn	Gly	Leu	
				805					810				815		
Asp	Leu	Ala	Ile	Pro	Val	Asp	Lys	Ala	Trp	Lys	Arg	His	Asp	Leu	Tyr
			820					825					830		
Leu	Ser	Thr	Leu	Val	Val	Arg	Pro	Gly	Asp	Lys	Ser	Lys	Ser	Ala	Thr

		835					840					845				
Pro	Lys	Arg	Ala	Val	Gly	Leu	Leu	His	Leu	Pro	Met	Gly	Asp	Glu	Asn	
	850					855					860					
Arg	Arg	Leu	Asn	Ile	Ala	Leu	Asp	Asn	Pro	Gln	Lys	Met	Arg	Pro	Asn	
865					870					875					880	
Gln	Thr	Leu	Ser	Val	Lys	Val	Lys	Ala	Ser	Val	Lys	Glu	Gly	Ala	Val	
				885					890						895	
Pro	Gln	Lys	Val	Asn	Val	Leu	Val	Ser	Ala	Val	Asp	Ser	Gly	Val	Leu	
			900					905					910			
Asn	Ile	Thr	Asp	Tyr	Val	Thr	Pro	Asp	Pro	Trp	Gln	Ala	Phe	Phe	Gly	
		915					920					925				
Gln	Lys	Arg	Tyr	Gly	Ala	Asp	Ile	Tyr	Asp	Val	Tyr	Gly	Gln	Val	Ile	
	930					935					940					
Glu	Gly	Gln	Gly	Arg	Leu	Ala	Ala	Leu	Arg	Phe	Gly	Gly	Asp	Gly	Asp	
945					950					955					960	
Glu	Leu	Lys	Arg	Gly	Gly	Lys	Pro	Pro	Val	Asn	His	Val	Thr	Ile	Ile	
				965					970					975		
Ala	Gln	Gln	Ala	Gln	Pro	Val	Thr	Leu	Asp	Ala	Asn	Gly	Glu	Gly	Thr	
			980					985					990			
Ile	Thr	Leu	Pro	Ile	Gly	Asp	Phe	Asn	Gly	Glu	Leu	Arg	Leu	Met	Ala	
		995				1000						1005				
Gln	Ala	Trp	Thr	Glu	Asp	Asp	Phe	Gly	Ser	Ser	Glu	Ser	Lys	Ile	Ile	
	1010					1015					1020					
Val	Ala	Ala	Pro	Ile	Ile	Thr	Glu	Leu	Asn	Thr	Pro	Arg	Phe	Leu	Ala	
1025					1030					1035					1040	
Ser	Gly	Asp	Thr	Ser	Arg	Leu	Thr	Leu	Asp	Leu	Thr	Asn	Leu	Thr	Asp	
				1045					1050					1055		
Gln	Pro	Gln	Thr	Leu	Ser	Ile	Ala	Leu	Thr	Ala	Ala	Gly	Lys	Leu	Ser	
			1060					1065					1070			
Leu	Glu	Gly	Ala	Gln	Pro	Glu	Pro	Val	Lys	Leu	Pro	Pro	Gly	Ala	Arg	
		1075				1080						1085				
Ser	Thr	Leu	Phe	Ile	Pro	Val	Arg	Ala	Leu	Glu	Gly	Tyr	Gly	Asp	Gly	
	1090					1095					1100					
Glu	Val	Thr	Ala	Gln	Val	Thr	Gly	Leu	Gln	Leu	Pro	Gly	Glu	Thr	Phe	
1105					1110					1115					1120	
Ala	Pro	Gln	Gln	Lys	Ser	Trp	Lys	Ile	Gly	Val	Arg	Pro	Ala	Phe	Pro	
				1125					1130					1135		
Ala	Gln	Thr	Val	Asn	Thr	Gly	Thr	Met	Leu	Asn	Pro	Gly	Glu	Ser	Trp	
			1140					1145					1150			
Ser	Ala	Pro	Ala	Gln	His	Ile	Glu	Gly	Phe	Ser	Pro	Ala	Thr	Leu	Gln	
		1155					1160					1165				
Gly	Gln	Leu	Leu	Leu	Ser	Gly	Lys	Pro	Pro	Leu	Asn	Leu	Ala	Arg	Tyr	
	1170					1175					1180					
Ile	Arg	Glu	Leu	Gln	Ala	Tyr	Pro	Tyr	Gly	Cys	Leu	Glu	Gln	Thr	Thr	
1185																

Lys Ala Pro Leu Gly Ala Leu Arg Glu Ile Trp Glu Arg His Ala Gln
 1330 1335 1340
 Ala Ala Ser Gly Leu Pro Leu Met Gln Leu Gly Met Ala Leu Lys Leu
 1345 1350 1355 1360
 Met Gly Asp Ala Pro Arg Ser Gln Gln Ala Leu Asp Leu Ala Leu Lys
 1365 1370 1375
 Thr Pro Arg Asn Asp Ser Arg Asn Trp Met Ala Asp Tyr Gly Ser Gln
 1380 1385 1390
 Leu Arg Asp Asn Ala Leu Met Leu Ser Leu Leu Glu Glu Tyr Lys Leu
 1395 1400 1405
 Leu Pro Asp Ala Gln Asn Arg Leu Leu Asn Ala Leu Ser Glu Asp Ala
 1410 1415 1420
 Phe Ser Gln Arg Trp Leu Ser Thr Gln Glu Ser Asn Ala Leu Phe Leu
 1425 1430 1435 1440
 Ala Gly Arg Ser Leu Gln Thr Leu Ser Gly Ala Trp Gln Ala Thr Thr
 1445 1450 1455
 Ser Leu Ser Glu Gln Thr Gln Ser Ser Asp Lys Ala Gln Val Glu Asn
 1460 1465 1470
 Leu Asn Gly Asp Gln Ile Gly Ala Leu Lys Met Thr Asn Thr Gly Thr
 1475 1480 1485
 Thr Pro Leu Trp Val Arg Leu Asp Thr Thr Gly Tyr Pro Glu Tyr Ala
 1490 1495 1500
 Pro Gln Pro Ser Ser Asn Val Leu Gln Ile Glu Arg His Ile Leu Ala
 1505 1510 1515 1520
 Thr Asp Gly Ser Ser Lys Ser Leu Ser Ser Leu Lys Ser Gly Glu Leu
 1525 1530 1535
 Val Leu Val Trp Leu Glu Val Lys Ala Ser Gln Asn Val Pro Asp Ala
 1540 1545 1550
 Leu Val Val Asp Leu Leu Pro Ala Gly Leu Glu Leu Glu Asn Gln Asn
 1555 1560 1565
 Leu Ala Ser Ser Ser Ala Ser Leu Gln Asp Ser Gly Ser Glu Val Gln
 1570 1575 1580
 Asn Leu Leu Asn Gln Met Gln Gln Ser Asp Ile Gln His Met Glu Phe
 1585 1590 1595 1600
 Arg Asp Asp Arg Phe Val Ala Ala Val Pro Val Asn Glu Gly Gln Pro
 1605 1610 1615
 Val Thr Leu Val Tyr Leu Ala Arg Ala Val Thr Pro Gly Thr Tyr Gln
 1620 1625 1630
 Val Pro Val Pro Met Val Glu Ser Met Tyr Val Pro Gln Trp Arg Ala
 1635 1640 1645
 Thr Gly Ala Ala Ser Gly Pro Leu Ile Val Val Pro
 1650 1655 1660

<210> 9337

<211> 179

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (179)

<400> 9337

Ile Ile Cys Pro Ser Glu Arg Asp Pro Met Gln Leu Arg Lys Leu Leu
 1 5 10 15
 Leu Pro Gly Leu Leu Ser Val Thr Leu Leu Ser Gly Cys Ser Leu Phe
 20 25 30
 Ser Gly Glu Glu Asp Val Val Lys Met Ser Pro Leu Pro Thr Val Glu
 35 40 45
 Asn Gln Phe Thr Pro Ser Thr Ala Trp Asp Thr Ser Val Gly Asp Gly
 50 55 60

Ile Gly Asp Phe Tyr Ser Asn Leu His Pro Ala Phe Ala Asp Gly Val
 65 70 75 80
 Val Tyr Ala Ala Asp Arg Lys Gly Thr Val Lys Ala Leu Asn Ala Asp
 85 90 95
 Asp Gly Lys Glu Val Trp Ser Ile Asn Leu Ala Glu Lys Asp Gly Trp
 100 105 110
 Phe Ser Arg Lys Pro Ala Leu Phe Tyr Gly Gly Leu Thr Val Thr Gly
 115 120 125
 Gly His Val Tyr Val Gly Ser Glu Lys Ala Gln Val Tyr Ala Leu Asn
 130 135 140
 Ala Ser Val Gly Ser Val Ala Trp Gln Thr Thr Val Ala Gly Glu Ser
 145 150 155 160
 Leu Ser Arg Pro Val Phe Thr Thr Gly Asn Glu His Arg Arg Leu His
 165 170 175
 Leu His Xaa

<210> 9338

<211> 336

<212> PRT

<213> Enterobacter cloacae

<400> 9338

Thr Val Arg Ala Gly Gly Asp Val Thr Met Ser Val Ile Ser Ser Pro
 1 5 10 15
 Val Ser Lys Pro Arg Arg Trp Leu His Leu Trp Pro Leu Ala Leu Phe
 20 25 30
 Leu Leu Leu Ala Val Gly Gly Ala Leu Trp Leu Trp Gln Ala Trp Pro
 35 40 45
 Gln Val Met Val Lys Ser Val Leu Trp Gln Arg Glu Val Asn Gln Gln
 50 55 60
 Met Ser Val Leu Leu Lys Ala Val Ala Glu Asn Pro Thr Lys Ala Gly
 65 70 75 80
 Gly Ala Leu Leu Ala Phe Ser Phe Ile Tyr Gly Val Leu His Ala Leu
 85 90 95
 Gly Pro Gly His Gly Lys Ile Val Ile Thr Thr Trp Leu Ala Thr His
 100 105 110
 Pro Ser Lys Leu Lys Ser Ser Ile Gly Leu Thr Leu Ala Ser Ser Leu
 115 120 125
 Leu Gln Gly Gly Val Ala Ile Ala Leu Val Val Val Leu Ser Leu
 130 135 140
 Leu Gln Leu Pro Ala Arg Gln Leu His Met Ser Ser Phe Trp Leu Glu
 145 150 155 160
 Lys Gly Ser Tyr Ala Leu Val Gly Val Leu Gly Leu Ile Leu Cys Trp
 165 170 175
 Arg Ala Leu Lys Lys Leu Arg Ala Leu Leu Gln Lys Pro Lys Phe Lys
 180 185 190
 Ala Phe Thr Pro His His Val His His Glu Asn Cys Gly Cys Gly His
 195 200 205
 Gln His Leu Pro Thr Gln Glu Gln Leu Gln Asn Gly Asp Asp Trp Arg
 210 215 220
 Ala Arg Leu Met Ile Val Leu Ser Met Gly Met Arg Pro Cys Ser Gly
 225 230 235 240
 Ala Ile Met Val Leu Leu Phe Ser Lys Val Thr Gly Val Phe Gly Trp
 245 250 255
 Gly Met Leu Ser Ala Leu Ala Met Ala Ala Gly Thr Ser Leu Thr Ile
 260 265 270
 Ser Ser Leu Ala Leu Leu Val His Ser Phe Arg Gln Leu Ala Val Lys
 275 280 285
 Leu Ser Gly Asn Lys Thr Pro Val Leu Trp Arg Gln Val Gly Trp Thr
 290 295 300

Thr Leu Ala Leu Ala Gly Gly Val Ile Leu Leu Val Ala Ala Val Thr
 305 310 315 320
 Met Trp Met Ser Ala Leu Pro Val Gly Arg Gly Leu Arg Pro Phe
 325 330 335

<210> 9339

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 9339

Gln Ala Thr Pro Glu Ile Val Met Asp Tyr Phe Thr Leu Phe Gly Leu
 1 5 10 15
 Pro Ala Gln Tyr Pro Ile Asp Leu Gln Ala Leu Thr Val Arg Phe Gln
 20 25 30
 Asp Leu Gln Arg Gln Tyr His Pro Asp Lys Phe Ala Ser Gly Thr Gln
 35 40 45
 Ala Glu Gln Leu Ala Ala Val Ser His Ser Ala Thr Ile Asn Gln Ala
 50 55 60
 Trp Gln Thr Leu Arg His Pro Leu Ala Arg Ala Glu Tyr Leu Leu Ser
 65 70 75 80
 Leu His Gly Phe Asp Leu Ala Ser Glu Gln His Thr Val Arg Asp Ala
 85 90 95
 Ala Phe Leu Met Glu Gln Leu Glu Leu Arg Glu Glu Leu Asp Glu Ile
 100 105 110
 Glu Gln Ala Lys Asp Glu Ala Arg Leu Glu Ser Phe Ile Thr Arg Val
 115 120 125
 Lys Gly Met Phe Asp Thr Arg His Gln Gln Met Val Glu Gln Leu Asn
 130 135 140
 Asn Glu Thr Trp Asp Val Ala Ala Asp Thr Val Arg Lys Leu Arg Phe
 145 150 155 160
 Leu Asp Lys Leu Arg Ser Ser Ala Glu Gln Leu Glu Glu Lys Leu Leu
 165 170 175
 Asp Phe

<210> 9340

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 9340

Lys Ala Ser Pro Trp Thr Arg Phe Asn Met Pro Lys Ile Val Ile Leu
 1 5 10 15
 Pro His Ala Asp Leu Cys Pro Asp Gly Ala Val Leu Glu Ala Lys Thr
 20 25 30
 Gly Glu Thr Ile Leu Asp Val Ala Leu Arg Ala Gly Ile Glu Val Glu
 35 40 45
 His Ala Cys Glu Lys Ser Cys Ala Cys Thr Thr Cys His Cys Ile Val
 50 55 60
 Arg Glu Gly Phe Asp Ser Leu Ala Glu Ser Thr Glu Asp Glu Asp Asp
 65 70 75 80
 Met Leu Asp Lys Ala Trp Gly Leu Glu Pro Asp Ser Arg Leu Ser Cys
 85 90 95
 Gln Ala Ala Val Thr Asp Glu Asp Leu Val Val Glu Phe Pro Arg Tyr
 100 105 110
 Thr Ile Asn His Ala Arg Glu His
 115 120

<210> 9341

<211> 781

<212> PRT

<213> Enterobacter cloacae

<400> 9341

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Ser Leu Phe Arg Lys Met Arg Ile Ala Arg Leu Ile Arg Ser Arg Trp
1      5      10      15
Leu Trp Leu Ala Gly Ala Leu Leu Val Ser Gly Gly Leu Ile Val Val
20      25      30
Ala Asp Arg Val Trp Pro Leu Pro Leu Lys Glu Val Asn Pro Ala Arg
35      40      45
Val Val Val Asp Glu Gln Gly Val Pro Leu Trp Arg Phe Ala Asp Ser
50      55      60
Glu Gly Ile Trp Arg Tyr Pro Val Thr Ile Lys Glu Val Ser Pro Arg
65      70      75      80
Tyr Leu Glu Ala Leu Ile Gln Tyr Glu Asp Arg Trp Phe Trp Asp His
85      90      95
Pro Gly Val Asn Pro Leu Ser Val Leu Arg Ala Ala Trp Gln Asp Leu
100     105     110
Thr Ser Gly Arg Val Val Ser Gly Gly Ser Thr Leu Thr Met Gln Val
115     120     125
Ala Arg Leu Leu Asp Pro His Pro Arg Thr Phe Gly Gly Lys Ile Arg
130     135     140
Gln Leu Trp Arg Ala Met Gln Leu Glu Trp His Leu Ser Lys Arg Glu
145     150     155     160
Ile Leu Thr Leu Tyr Leu Asn Arg Ala Pro Phe Gly Gly Thr Leu Gln
165     170     175
Gly Val Gly Ala Ala Ser Trp Thr Tyr Leu Gly Lys Pro Pro Ser Gln
180     185     190
Leu Ser Tyr Ser Asp Ala Ala Leu Leu Ala Val Leu Pro Gln Ala Pro
195     200     205
Ser Arg Leu Arg Pro Asp Arg Trp Pro Glu Arg Ala Glu Ala Ala Arg
210     215     220
Asn Lys Val Leu Asp Arg Met Leu Thr Gln Gly Val Trp Ser Glu Lys
225     230     235     240
Gln Val Lys Glu Ser Arg Glu Glu Pro Val Trp Leu Ala Pro Arg Gln
245     250     255
Met Pro Gln Leu Ala Pro Leu Phe Ser Arg Met Met Leu Ser Lys Ser
260     265     270
Arg Asp Thr Lys Ile Val Thr Thr Leu Asp Ala Ala Leu Gln Arg Gln
275     280     285
Leu Glu Glu Leu Ala Met Asn Trp Lys Ser Arg Leu Pro Ala Arg Ser
290     295     300
Ser Leu Ala Met Ile Val Val Asp His Thr Ser Met Lys Val Arg Gly
305     310     315     320
Trp Val Gly Ser Val Asp Ile Asn Asp Asp Ser Arg Phe Ser His Val
325     330     335
Asp Met Val Asn Ala Ile Arg Ser Pro Gly Ser Val Leu Lys Pro Phe
340     345     350
Ile Tyr Gly Met Ala Leu Asp Asp Gly Leu Ile His Pro Ala Ser Leu
355     360     365
Leu Gln Asp Val Pro Arg Lys Thr Gly Asp Tyr Arg Pro Gly Asn Phe
370     375     380
Asp Ser Gly Phe His Gly Pro Val Ser Met Ser Glu Ala Leu Val Arg
385     390     395     400
Ser Leu Asn Leu Pro Ala Val Gln Val Leu Glu Ala Tyr Gly Pro Lys
405     410     415
Arg Phe Ala Gly Met Leu Ser Asn Ala Gly Leu Pro Leu Ile Leu Pro
420     425     430
Ala Gly Ala Gln Pro Asn Leu Ser Leu Ile Leu Gly Gly Ala Gly Ala
435     440     445
Arg Leu Ala Asp Ile Ala Ala Ala Tyr Ser Ala Phe Ala Arg Gln Gly

```

450		455		460
Lys Ala Gly Arg Leu	Arg Leu Gln Pro Gly Asp	Pro Leu Ile Glu Arg		
465	470	475		480
Pro Leu Leu Ser Gln	Gly Ala Ala Trp Ile Ile Arg Arg Ile Leu Ala			
	485	490		495
Asn Glu Ala Gln Pro Leu Pro Asp Ser Ala Leu Pro Gln Val Ala Pro				
	500	505		510
Leu Ala Trp Lys Thr Gly Thr Ser Tyr Gly Tyr Arg Asp Ala Trp Ala				
	515	520		525
Ile Gly Leu Asn Ala Arg Tyr Val Ile Gly Ile Trp Thr Gly Arg Pro				
	530	535		540
Asp Gly Thr Pro Val Ala Gly Gln Phe Gly Phe Ala Ser Ala Val Pro				
545	550	555		560
Leu Leu Asn Gln Val Asn Asn Met Leu Gln Ser Arg Ser Met Val Asp				
	565	570		575
Glu Ala Arg Leu Pro Arg Asp Pro Arg Pro Ala Ser Val Gly Arg Gly				
	580	585		590
Val Ile Cys Trp Pro Gly Gly Gln Ser Leu Pro Glu Gly Ser Glu Asn				
	595	600		605
Cys Arg Arg Arg Leu Ser Thr Trp Leu Leu Glu Gly Ser Glu Pro Pro				
	610	615		620
Thr Leu Leu Leu Pro Glu Gln Glu Gly Ile Arg Gly Ile Arg Phe Pro				
625	630	635		640
Val Trp Leu Asp Lys Glu Gly Lys Arg Val Ala Ala Asp Cys Pro Asp				
	645	650		655
Ala Thr Glu Lys Val Leu Asp Val Trp Pro Leu Pro Leu Glu Pro Trp				
	660	665		670
Leu Pro Ala Ala Glu Lys Arg Ala Ala Arg Leu Pro Ala Arg Ser Ala				
	675	680		685
Ile Cys Pro Pro Leu Asp Asn His Asn Ala Ala Pro Leu Met Leu Ser				
	690	695		700
Gly Val Arg Glu Gly Ala Val Ile Lys Arg Leu Pro Gly Glu Lys Asn				
705	710	715		720
Ile Thr Leu Asn Val Ser Thr Ser Gly Gly Glu Gly Gln Arg Trp Trp				
	725	730		735
Phe Leu Asn Gly Glu Pro Leu Asp Gly His Gln Lys Asn Tyr Ser Leu				
	740	745		750
Gln Leu Tyr Leu Pro Gly Lys Tyr Gln Leu Ile Val Leu Asp Glu Thr				
	755	760		765
Gly Gln Thr Ala Thr Val Asn Phe Glu Leu Asp Arg				
770	775	780		

<210> 9342

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 9342

Ser Met Ser Gln Phe Lys His Tyr Ala Pro Val Ser Asp Lys Gln Leu				
1	5	10	15	
Gly Phe Tyr Ile Asp Ser Ser Arg Cys Ser Gly Cys Lys Ala Cys Gln				
	20	25	30	
Val Ala Cys Lys Asp Lys Asn Asn Leu Glu Val Gly Arg Arg Phe Arg				
	35	40	45	
Arg Val Tyr Glu Val Asn Gly Gly Asn Phe Ile Pro Thr Gly Gln Gly				
	50	55	60	
Gly Val Ser Asn Asn Val Phe Ala Tyr Thr Leu Ser Ile Ser Cys Asn				
65	70	75	80	
His Cys Ala Asp Pro Ile Cys Thr Lys Asn Cys Pro Thr Thr Ala Met				
	85	90	95	
His Lys Arg Pro Gly Asp Gly Ile Val Arg Val Asp Thr Asp Lys Cys				

			100					105				110					
Val	Gly	Cys	Gly	Tyr	Cys	Ala	Trp	Ser	Cys	Pro	Tyr	Gly	Ala	Pro	Gln		
		115					120					125					
Leu	Asn	Glu	Gln	Thr	Gly	Gln	Met	Ser	Lys	Cys	Asp	Phe	Cys	Val	Asp		
		130					135					140					
Leu	Gln	Ala	Lys	Gly	Glu	Gln	Pro	Val	Cys	Val	Ala	Thr	Cys	Pro	Leu		
145					150					155					160		
Glu	Ala	Ile	Lys	Phe	Gly	Pro	Ile	Asp	Glu	Leu	Arg	Ala	Lys	Tyr	Gly		
				165					170					175			
Ala	Val	Cys	Asp	Val	Lys	Gly	Leu	Pro	Asp	Ser	Ser	Ile	Thr	Lys	Pro		
			180					185					190				
Asn	Leu	Val	Ile	Lys	Ala	His	Gln	Gly	Ala	Glu	Lys	Glu	Gly	Lys	Arg		
		195					200					205					
His	Ala																
	210																

<210> 9343

<211> 304

<212> PRT

<213> Enterobacter cloacae

<400> 9343

Ala	Asp	Ala	Ala	Leu	Cys	Phe	Leu	Gln	Tyr	Trp	Leu	Met	Gly	Gly	Leu		
1				5				10					15				
Thr	Phe	Ala	Pro	Ala	Met	Asp	Val	Thr	His	Ala	Cys	Val	Arg	Arg	Arg		
			20					25					30				
Phe	Arg	His	Ser	Ser	Cys	Leu	Ala	Cys	Ala	Asp	Val	Cys	Pro	Val	Gln		
		35					40					45					
Ala	Phe	Ser	Phe	Thr	Asp	Ser	Gly	Val	Ser	Val	Asp	Asp	Ser	Arg	Cys		
		50				55					60						
Ile	Glu	Cys	Gly	Asp	Cys	Leu	Phe	Val	Cys	Pro	Ala	Gly	Ala	Ile	Thr		
65					70					75				80			
Gly	Ile	Thr	Pro	Arg	Lys	Arg	Phe	Leu	Ser	Gly	Asp	Thr	Leu	Val	Gly		
				85				90					95				
Pro	Phe	Thr	Asp	Arg	Ala	Pro	Gly	Val	Asn	Glu	Leu	Leu	Leu	Trp	His		
			100				105						110				
Ala	Gln	Tyr	His	Val	Arg	Phe	Ile	Ser	Ile	Asp	Ala	Glu	Gln	Asn	Pro		
		115					120					125					
Asp	Trp	Leu	Leu	Ala	Ile	Ala	Arg	Leu	Asn	Leu	Ala	Leu	Arg	Arg	Arg		
		130				135						140					
Gly	Glu	Ala	Ala	Trp	Ala	Phe	Lys	His	Ile	Pro	Val	Asn	Glu	Val	Asn		
145					150					155					160		
Thr	Ala	Arg	Arg	Ala	Leu	Met	His	Val	Pro	Arg	Glu	Asp	Val	Arg	Val		
				165					170					175			
Cys	Ser	Val	Val	Pro	Gly	Gln	Arg	Asp	Leu	Arg	Arg	Ala	Phe	Ser	Ala		
			180					185					190				
Phe	Ser	Glu	Ala	Glu	Ile	Thr	Leu	Asp	Thr	Glu	Ser	Cys	Val	Leu	Cys		
		195					200					205					
Gly	Ala	Cys	Trp	Arg	Ser	Cys	Thr	Glu	Asn	Ala	Ile	Arg	Phe	Gln	Asn		
		210				215					220						
Thr	Glu	Leu	Val	Val	Glu	Thr	Gly	Arg	Cys	Thr	Gly	Cys	Gly	Gly	Cys		
225					230					235					240		
Val	Ala	Val	Cys	Gln	His	Ala	Ala	Ile	Asn	Val	Thr	Gln	Thr	Glu	Gly		
				245					250					255			
Thr	Ala	Lys	Ser	Val	Thr	Ile	Pro	Ala	Tyr	Glu	Ala	Val	Cys	Leu	Thr		
			260					265					270				
Cys	His	Arg	His	Phe	Trp	Ser	Phe	Thr	Ser	Asp	Glu	Lys	Gln	Cys	Pro		
		275					280					285					
Leu	Cys	Phe	His	His	Gln	His	Gly	Met	Arg	Asn	Thr	Ser	Cys	Cys			
		290				295					300						

<210> 9344
 <211> 390
 <212> PRT
 <213> Enterobacter cloacae

<400> 9344

Cys	Arg	Thr	Ile	Ser	Ser	Thr	Val	Thr	Asp	Gly	Gln	Cys	Gly	Arg	Phe
1				5					10					15	
Tyr	Met	His	Asn	Gln	Ala	Pro	Ile	Gln	Arg	Arg	Lys	Ser	Lys	Arg	Ile
			20					25					30		
Tyr	Val	Gly	Asn	Val	Pro	Ile	Gly	Asp	Gly	Ala	Pro	Ile	Ala	Val	Gln
		35					40					45			
Ser	Met	Thr	Asn	Thr	Arg	Thr	Thr	Asp	Val	Glu	Ala	Thr	Val	Asn	Gln
	50					55				60					
Ile	Lys	Ala	Leu	Glu	Arg	Val	Gly	Ala	Asp	Ile	Val	Arg	Val	Ser	Val
65				70					75						80
Pro	Thr	Met	Asp	Ala	Ala	Glu	Ala	Phe	Lys	Leu	Ile	Lys	Gln	Gln	Val
				85				90						95	
Ser	Val	Pro	Leu	Val	Ala	Asp	Ile	His	Phe	Asp	Tyr	Arg	Ile	Ala	Leu
			100					105					110		
Lys	Val	Ala	Glu	Tyr	Gly	Val	Asp	Cys	Leu	Arg	Ile	Asn	Pro	Gly	Asn
		115					120					125			
Ile	Gly	Asn	Glu	Glu	Arg	Ile	Arg	Met	Val	Val	Asp	Cys	Ala	Arg	Asp
	130					135					140				
Lys	Asn	Ile	Pro	Ile	Arg	Ile	Gly	Val	Asn	Ala	Gly	Ser	Leu	Glu	Lys
145					150					155					160
Asp	Leu	Gln	Glu	Lys	Tyr	Gly	Glu	Pro	Thr	Pro	Gln	Ala	Leu	Leu	Glu
				165				170						175	
Ser	Ala	Met	Arg	His	Val	Asp	His	Leu	Asp	Arg	Leu	Asn	Phe	Asp	Gln
			180					185					190		
Phe	Lys	Val	Ser	Val	Lys	Ala	Ser	Asp	Val	Phe	Leu	Ala	Val	Glu	Ser
	195						200					205			
Tyr	Arg	Leu	Leu	Ala	Lys	Gln	Ile	Asp	Gln	Pro	Leu	His	Leu	Gly	Ile
	210					215					220				
Thr	Glu	Ala	Gly	Gly	Leu	Arg	Ser	Gly	Ser	Val	Lys	Ser	Ala	Ile	Gly
225					230					235					240
Leu	Gly	Leu	Leu	Leu	Ser	Glu	Gly	Ile	Gly	Asp	Thr	Leu	Arg	Val	Ser
				245					250					255	
Leu	Ala	Ala	Asp	Pro	Val	Glu	Glu	Ile	Lys	Val	Gly	Phe	Asp	Ile	Leu
			260					265					270		
Lys	Ser	Leu	Arg	Ile	Arg	Ala	Arg	Gly	Ile	Asn	Phe	Ile	Ala	Cys	Pro
		275					280					285			
Thr	Cys	Ser	Arg	Gln	Glu	Phe	Asp	Val	Ile	Gly	Thr	Val	Asn	Ala	Leu
	290					295					300				
Glu	Gln	Arg	Leu	Glu	Asp	Ile	Ile	Thr	Pro	Met	Asp	Val	Ser	Ile	Ile
305					310					315					320
Gly	Cys	Val	Val	Asn	Gly	Pro	Gly	Glu	Ala	Leu	Val	Ser	Thr	Leu	Gly
				325					330					335	
Val	Thr	Gly	Gly	Asn	Lys	Lys	Ser	Gly	Leu	Tyr	Glu	Asp	Gly	Val	Arg
			340					345					350		
Lys	Asp	Arg	Leu	Asp	Asn	Ser	Asp	Met	Ile	Asp	Gln	Leu	Glu	Ala	Arg
		355					360					365			
Ile	Arg	Ala	Lys	Ala	Thr	Met	Met	Asp	Glu	Ala	Gln	Arg	Ile	Ser	Val
	370					375					380				
Gln	Gln	Val	Glu	Lys											
385						390									

<210> 9345
 <211> 441
 <212> PRT
 <213> Enterobacter cloacae

<400> 9345

Leu Asn Pro Phe Phe Gly Phe Phe Phe Val Tyr Arg Lys Arg Ile Asn
 1 5 10 15
 Val Ala Lys Asn Ile Gln Ala Ile Arg Gly Met Asn Asp Tyr Leu Pro
 20 25 30
 Gly Glu Thr Ala Ile Trp Gln Arg Ile Glu Gly Thr Leu Lys Gln Val
 35 40 45
 Leu Gly Ser Tyr Gly Tyr Ser Glu Ile Arg Leu Pro Ile Val Glu Gln
 50 55 60
 Thr Pro Leu Phe Lys Arg Ala Ile Gly Glu Val Thr Asp Val Val Glu
 65 70 75 80
 Lys Glu Met Tyr Thr Phe Glu Asp Arg Asn Gly Asp Ser Leu Thr Leu
 85 90 95
 Arg Pro Glu Gly Thr Ala Gly Cys Val Arg Ala Gly Ile Glu His Gly
 100 105 110
 Leu Leu Tyr Asn Gln Glu Gln Arg Leu Trp Tyr Ile Gly Pro Met Phe
 115 120 125
 Arg His Glu Arg Pro Gln Lys Gly Arg Tyr Arg Gln Phe Asn Gln Leu
 130 135 140
 Gly Val Glu Val Phe Gly Leu Gln Gly Pro Asp Ile Asp Ala Glu Leu
 145 150 155 160
 Ile Met Leu Thr Ala Arg Trp Trp Arg Ala Leu Gly Ile Ser Glu His
 165 170 175
 Val Ser Leu Glu Leu Asn Ser Ile Gly Ser Leu Glu Ala Arg Ala Asn
 180 185 190
 Tyr Arg Asp Ala Leu Val Ala Phe Leu Glu Gln His Lys Glu Lys Leu
 195 200 205
 Asp Glu Asp Cys Lys Arg Arg Met Tyr Ser Asn Pro Leu Arg Val Leu
 210 215 220
 Asp Ser Lys Asn Pro Asp Val Gln Ala Leu Leu Asn Asp Ala Pro Ala
 225 230 235 240
 Leu Gly Asp Tyr Leu Asp Glu Asp Ser Arg Glu His Phe Ala Gly Leu
 245 250 255
 Cys Lys Leu Leu Glu Ala Ala Gly Ile Ala Tyr Thr Val Asn Gln Arg
 260 265 270
 Leu Val Arg Gly Leu Asp Tyr Tyr Asn Arg Thr Val Phe Glu Trp Val
 275 280 285
 Thr Thr Ser Leu Gly Ser Gln Gly Thr Val Cys Ala Gly Gly Arg Tyr
 290 295 300
 Asp Gly Leu Val Glu Gln Leu Gly Gly Arg Ala Ala Pro Ala Val Gly
 305 310 315 320
 Phe Ala Met Gly Leu Glu Arg Leu Val Leu Leu Val Gln Ala Val Asn
 325 330 335
 Pro Glu Phe Lys Ala Asp Pro Val Val Asp Ile Tyr Leu Val Ala Ser
 340 345 350
 Gly Ala Asp Thr Gln Ser Ala Ala Met Gln Leu Ala Glu Arg Val Arg
 355 360 365
 Asp Ala Leu Pro Asp Val Lys Leu Met Thr Asn His Gly Gly Gly Asn
 370 375 380
 Phe Lys Lys Gln Phe Ala Arg Ala Asp Lys Trp Gly Ala Ser Ile Ala
 385 390 395 400
 Leu Val Leu Gly Glu Ser Glu Val Ala Asn Gly Glu Val Val Val Lys
 405 410 415
 Asp Leu Arg Ser Gly Glu Gln Thr Thr Val Thr Gln Asp Gly Val Ala
 420 425 430
 Ala His Leu Arg Thr Leu Leu Gly
 435 440

<210> 9346

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 9346

```

Arg Glu Glu Gln Met Gln Ile Val Lys Gln Ser Ala Val Ala Leu Phe
1      5      10      15
Leu Ala Val Phe Thr Phe Ala Ala Gly Ala His Pro His Ser Phe Ile
20      25      30
Ser Leu Lys Thr Glu Leu Val Thr Asp Gly Thr Gln Leu Ser Gly Leu
35      40      45
Lys Met His Trp Thr Met Asp Glu Ile Thr Ser Ala Asp Leu Leu Tyr
50      55      60
Asp Ala Gly Asn Ala Lys Pro Gly Asp Glu Ile Trp Lys Lys Leu Ala
65      70      75      80
Ala Glu Val Met Ala Asn Val Leu Gly Gln His Tyr Phe Thr Glu Phe
85      90      95
Trp His Asn Gly Gln Lys Val Lys Phe Leu Asn Arg Pro Thr Glu Tyr
100     105     110
Gly Met Thr Arg Glu Gly His Gln Ala Val Leu Thr Phe Val Leu Pro
115     120     125
Leu Ala His Pro Gln Pro Leu Pro Gly Gln Thr Tyr Arg Phe Ser Thr
130     135     140
Phe Asp Pro Thr Tyr Tyr Val Asp Met Arg Tyr Asp Lys Asp Ser Asp
145     150     155     160
Val Arg Leu Pro Asp Ala Leu Gln Lys Ser Cys Lys Ile Gly Val His
165     170     175
Thr Pro Lys Pro Ser Glu Glu Thr Leu Asn Phe Ala Ile Ser Leu Asp
180     185     190
Lys Ala Asp Ala Pro Pro Glu Asp Met Glu Leu Gly Lys Gln Phe Ala
195     200     205
Gln Glu Val Thr Leu Gln Cys Gln
210     215

```

<210> 9347

<211> 269

<212> PRT

<213> Enterobacter cloacae

<400> 9347

```

Gln Arg Asp Arg Ile Met Ser Leu Val Tyr Asp Asn Met Pro Glu Tyr
1      5      10      15
Ser Ser Asp Thr Glu Ser Arg His Leu Lys Ile Met Leu Gln Asn Ile
20      25      30
Arg Ile Val Leu Val Glu Thr Ser His Thr Gly Asn Met Gly Ser Val
35      40      45
Ala Arg Ala Met Lys Thr Met Gly Leu Thr Asn Leu Trp Leu Val Asn
50      55      60
Pro Leu Val Lys Pro Asp Ser Gln Ala Ile Ala Leu Ala Ala Gly Ala
65      70      75      80
Ser Asp Val Ile Gly Asn Ala Gln Ile Val Asp Thr Leu Asp Glu Ala
85      90      95
Leu Ala Gly Cys Ser Leu Val Val Gly Thr Ser Ala Arg Ser Arg Thr
100     105     110
Leu Pro Trp Pro Met Leu Asp Pro Arg Glu Cys Gly Leu Lys Ser Ile
115     120     125
Ser Glu Ala Glu Gln Ala Pro Val Ala Leu Val Phe Gly Arg Glu Arg
130     135     140
Val Gly Leu Thr Asn Glu Leu Gln Lys Cys His Tyr His Val Ala
145     150     155     160
Ile Ala Ala Asn Pro Glu Tyr Ser Ser Leu Asn Leu Ala Met Ala Val
165     170     175

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Gln Val Ile Ala Tyr Glu Val Arg Met Ala Trp Leu Ala Thr Gln Glu
 180 185 190
 Lys Pro Val Glu Pro Lys Glu Glu Thr Ala Tyr Pro Leu Val Asp Asp
 195 200 205
 Leu Glu Arg Phe Tyr Gly His Leu Glu Gln Thr Leu Leu Ser Thr Gly
 210 215 220
 Phe Ile Arg Glu Gly His Pro Gly Gln Val Met Asn Lys Leu Arg Arg
 225 230 235 240
 Met Phe Thr Arg Ala Arg Pro Glu Ser Gln Glu Leu Asn Ile Leu Arg
 245 250 255
 Gly Ile Leu Ala Ser Ile Glu Gln Lys Asn Lys Ala
 260 265

<210> 9348

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 9348

Asp Met Arg Leu Thr Ser Lys Gly Arg Tyr Ala Val Thr Ala Met Leu
 1 5 10 15
 Asp Val Ala Leu Asn Ser Glu Ala Gly Pro Val Pro Leu Ala Asp Ile
 20 25 30
 Ser Glu Arg Gln Gly Ile Ser Leu Ser Tyr Leu Glu Gln Leu Phe Ser
 35 40 45
 Arg Leu Arg Lys Asn Gly Leu Val Ser Ser Val Arg Gly Pro Gly Gly
 50 55 60
 Gly Tyr Leu Leu Gly Lys Asp Ala Gly Ser Ile Ala Val Gly Glu Val
 65 70 75 80
 Ile Ser Ala Val Asp Glu Ser Val Asp Ala Thr Arg Cys Gln Gly Lys
 85 90 95
 Gly Gly Cys Gln Gly Gly Asp Lys Cys Leu Thr His Ala Leu Trp Arg
 100 105 110
 Asp Leu Ser Asp Arg Leu Thr Gly Phe Leu Asn Asn Ile Thr Leu Gly
 115 120 125
 Glu Leu Val Asn Asn Gln Glu Val Leu Asp Val Ser Gly Arg Gln His
 130 135 140
 Ser Gln Asp Ser Gln Arg Ser Thr Arg Thr Gln Asp Ala Ile Asp Val
 145 150 155 160
 Lys Leu Arg Ala
 165

<210> 9349

<211> 440

<212> PRT

<213> Enterobacter cloacae

<400> 9349

Val Phe Arg Ile Arg Pro Gly Trp Ser His Pro Ala Tyr Ser Val Val
 1 5 10 15
 His Pro Ala Gly Cys Leu Ile Pro Cys Ile Glu Ala Met Tyr Gly Val
 20 25 30
 Tyr Arg Ala Met Lys Leu Pro Ile Tyr Leu Asp Tyr Ser Ala Thr Thr
 35 40 45
 Pro Val Asp Pro Arg Val Ala Glu Lys Met Met Gln Cys Leu Thr Leu
 50 55 60
 Asp Gly Asn Phe Gly Asn Pro Ala Ser Arg Ser His Arg Phe Gly Trp
 65 70 75 80
 His Ala Glu Glu Ala Val Asp Ile Ala Arg Asn Gln Ile Ala Asp Leu
 85 90 95
 Val Gly Ala Asp Pro Arg Glu Ile Val Phe Thr Ser Gly Ala Thr Glu

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<210> 9350
<211> 137
<212> PRT
<213> Enterobacter cloacae
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<400> 9350															
Ser	Val	His	Lys	Glu	Asn	Ser	Ile	Met	Ala	Tyr	Ser	Glu	Lys	Val	Ile
1				5					10					15	
Asp	His	Tyr	Glu	Asn	Pro	Arg	Asn	Val	Gly	Ser	Phe	Asp	Asn	Ser	Asp
			20					25					30		
Glu	Ser	Val	Gly	Ser	Gly	Met	Val	Gly	Ala	Pro	Ala	Cys	Gly	Asp	Val
		35					40					45			
Met	Lys	Leu	Gln	Ile	Lys	Val	Asn	Asn	Glu	Gly	Ile	Ile	Glu	Asp	Ala
	50					55					60				
Arg	Phe	Lys	Thr	Tyr	Gly	Cys	Gly	Ser	Ala	Ile	Ala	Ser	Ser	Ser	Leu
65					70					75					80
Val	Thr	Glu	Trp	Val	Lys	Gly	Lys	Ser	Leu	Asp	Glu	Ala	Gln	Ala	Ile

				85					90					95			
Lys	Asn	Thr	Asp	Ile	Ala	Glu	Glu	Leu	Glu	Leu	Pro	Pro	Val	Lys	Ile		
			100					105					110				
His	Cys	Ser	Ile	Leu	Ala	Glu	Asp	Ala	Ile	Lys	Ala	Ala	Ile	Ala	Asp		
		115					120					125					
Tyr	Lys	Ser	Lys	Arg	Glu	Ala	Lys										
	130					135											

<210> 9351

<211> 88

<212> PRT

<213> Enterobacter cloacae

<400> 9351

Pro	Met	Lys	Ile	Trp	Ser	Trp	Ser	Ser	His	Ala	Thr	Pro	Ser	Thr	Thr		
1				5					10					15			
His	Ala	Ser	Thr	Asn	Met	Gly	Leu	Lys	Trp	Thr	Asp	Ser	Arg	Glu	Ile		
			20					25					30				
Gly	Glu	Ala	Leu	Tyr	Asp	Ala	Asn	Pro	Asp	Leu	Asp	Pro	Lys	Thr	Val		
		35					40					45					
Arg	Phe	Thr	Asp	Met	His	Gln	Trp	Ile	Cys	Asp	Leu	Glu	Asp	Phe	Asp		
	50					55					60						
Asp	Asp	Pro	Asn	Ala	Ser	Asn	Glu	Lys	Ile	Leu	Glu	Ala	Ile	Leu	Leu		
65					70					75					80		
Val	Trp	Leu	Asp	Glu	Ala	Glu											
				85													

<210> 9352

<211> 436

<212> PRT

<213> Enterobacter cloacae

<400> 9352

Leu	Leu	Ile	Arg	Ile	Asn	Lys	Met	Thr	Glu	Ala	Met	Lys	Ile	Thr	Leu		
1				5					10					15			
Ser	Asn	Gln	Pro	Ala	Asp	Ala	Arg	Trp	Gly	Glu	Lys	Ala	Thr	Tyr	Ser		
			20					25					30				
Ile	Asn	Asn	Asp	Gly	Ile	Thr	Leu	His	Leu	Thr	Gly	Asn	Asp	Asp	Leu		
		35					40					45					
Gly	Leu	Ile	Gln	Arg	Ala	Ala	Arg	Lys	Ile	Asp	Gly	Leu	Gly	Ile	Lys		
	50					55					60						
His	Val	Ser	Leu	Glu	Gly	Glu	Gly	Trp	Asp	Thr	Asp	Arg	Ser	Trp	Ala		
65				70						75					80		
Phe	Trp	Ala	Gly	Tyr	Lys	Gly	Pro	Lys	Gly	Thr	Arg	Lys	Ile	Glu	Trp		
				85					90					95			
Ala	Asn	Leu	Asp	Glu	Ala	Gly	Gln	Lys	Glu	Leu	Glu	Ser	Arg	Leu	Asn		
		100						105					110				
Ile	Ile	Asp	Trp	Val	Arg	Asp	Thr	Ile	Asn	Ala	Pro	Ala	Glu	Glu	Leu		
		115					120					125					
Gly	Pro	Glu	Gln	Leu	Ala	Gln	Arg	Ala	Val	Asp	Leu	Leu	Cys	Gly	Val		
	130					135					140						
Ala	Gly	Glu	Lys	Met	Ser	Tyr	Arg	Ile	Thr	Lys	Gly	Glu	Asp	Leu	Arg		
145				150						155					160		
Glu	Gln	Asn	Tyr	Met	Gly	Ile	His	Thr	Val	Gly	Arg	Gly	Ser	Glu	Arg		
				165					170					175			
Pro	Pro	Val	Leu	Leu	Ala	Leu	Asp	Tyr	Asn	Pro	Thr	Gly	Asp	Lys	Glu		
		180					185						190				
Ala	Pro	Val	Phe	Ala	Cys	Leu	Val	Gly	Lys	Gly	Ile	Thr	Phe	Asp	Thr		
		195					200					205					
Gly	Gly	Tyr	Ser	Leu	Lys	Gln	Ser	Ala	Phe	Met	Asp	Ser	Met	Lys	Ser		
	210					215					220						

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Asp Met Gly Gly Ala Ala Thr Ile Thr Gly Ala Leu Ala Phe Ala Ile
225                230                235                240
Thr Arg Gly Leu Asn Lys Arg Val Lys Leu Tyr Leu Cys Cys Ala Asp
                245                250                255
Asn Met Val Ser Gly Asn Ala Phe Lys Leu Gly Asp Ile Ile Arg Tyr
                260                265                270
Arg Asn Gly Lys Asn Val Glu Val Met Asn Thr Asp Ala Glu Gly Arg
                275                280                285
Leu Val Leu Ala Asp Gly Leu Ile Asp Ala Ser Ala Gln Lys Pro Glu
                290                295                300
Leu Ile Ile Asp Met Ala Thr Leu Thr Gly Ala Ala Lys Thr Ala Leu
305                310                315                320
Gly Asn Asp Tyr His Ala Leu Phe Ser Phe Asp Asp Lys Leu Ala Ala
                325                330                335
Arg Leu Leu Ala Ser Ala Ala Ala Glu Asn Glu Pro Phe Trp Arg Leu
                340                345                350
Pro Leu Ala Glu Phe His Arg Ser Gln Leu Pro Ser Asn Phe Ala Glu
                355                360                365
Leu Asn Asn Thr Ala Ser Ala Ala Tyr Pro Ala Gly Ala Ser Thr Ala
                370                375                380
Ala Gly Phe Leu Ser His Phe Val Glu Asn Tyr His Glu Gly Trp Leu
385                390                395                400
His Ile Asp Cys Ser Ala Thr Tyr Arg Lys Ala Ala Val Glu Gln Trp
                405                410                415
Ser Ala Gly Ala Thr Gly Leu Gly Val Arg Thr Val Ala Asn Leu Leu
                420                425                430
Thr Ala Glu
                435

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<210> 9353

<211> 268

<212> PRT

<213> Enterobacter cloacae

<400> 9353

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Gly Gly Asn Ser Thr Ser Gly Ile Thr Met Ser Glu Thr Lys Asn Glu
1                5                10                15
Leu Glu Thr Leu Leu Glu Gln Ala Ala Thr Glu Pro Ala His Arg Pro
                20                25                30
Ala Phe Phe Arg Thr Leu Leu Glu Ser Thr Val Trp Val Pro Gly Thr
                35                40                45
Ala Ala Glu Gly Glu Gln Val Val Glu Asp Ser Ala Leu Asp Leu Leu
                50                55                60
His Trp Glu Lys Asp Asp Gly Thr Ser Val Ile Pro Phe Phe Thr Ser
65                70                75                80
Leu Glu Ala Leu Gln Glu Ala Val Glu Asp Glu Gln Ala Phe Val Val
                85                90                95
Met Pro Val Arg Thr Leu Phe Glu Met Thr Leu Gly Gln Thr Leu Phe
                100                105                110
Leu Asn Ala Lys Leu Pro Thr Gly Lys Glu Phe Thr Pro Arg Glu Ile
                115                120                125
Ser His Leu Ile Gly Asp Glu Gly Asn Pro Leu Ser Thr Gln Glu Val
                130                135                140
Leu Glu Gly Gly Glu Thr Leu Leu Leu Ser Glu Val Ala Glu Pro Pro
145                150                155                160
Ala Gln Met Ile Asp Ser Leu Thr Thr Leu Phe Lys Thr Ile Lys Pro
                165                170                175
Val Lys Arg Ala Phe Leu Cys Ser Ile Lys Glu Ser Ala Asp Glu Lys
                180                185                190
Pro Val Leu Leu Ile Gly Ile Glu Ala Asp Gly Asp Val Asp Glu Ile
                195                200                205

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Ile Gln Ala Ala Gly Ser Val Ala Thr Asp Thr Leu Pro Gly Asp Glu
 210 215 220
 Pro Ile Asp Ile Cys Gln Val Lys Lys Gly Glu Lys Gly Ile Ser His
 225 230 235 240
 Phe Ile Thr Glu His Ile Thr Pro Phe Tyr Glu Arg Arg Trp Gly Gly
 245 250 255
 Phe Leu Arg Asp Leu Lys Thr Asn Arg Ile Ile
 260 265

<210> 9354

<211> 806

<212> PRT

<213> Enterobacter cloacae

<400> 9354

Lys Lys Thr Arg Met Arg Phe Tyr Leu Lys Glu Arg Ala Met Lys Lys
 1 5 10 15
 Asn Lys His Gln Gly Glu Gly Leu Ile Pro Ala Ile Ser Arg Arg His
 20 25 30
 Phe Ile Gln Ala Gly Ser Ala Leu Ala Ala Leu Pro Phe Val Val Lys
 35 40 45
 Thr Gly Lys Val Gln Ala Gln Asp Ala Ala Val Ser Asp Ala Thr Pro
 50 55 60
 Glu Glu Lys Val Val Gln Thr Cys Ser Thr Phe Asp Cys Gly Gly Lys
 65 70 75 80
 Cys Asp Ile Arg Ala His Val Ser Asp Gly Val Val Thr Arg Ile Ser
 85 90 95
 Thr Arg Pro Asp Asn Ala Leu Asp Pro Gln Met Pro Val Met Arg Ala
 100 105 110
 Cys Val Arg Gly Arg Ala Tyr Arg Lys Phe Val Tyr His Pro Asp Arg
 115 120 125
 Leu Lys Tyr Pro Met Lys Arg Val Gly Lys Arg Gly Glu Gly Lys Phe
 130 135 140
 Glu Arg Ile Thr Trp Asp Glu Ala Thr Thr Leu Ile Ala Asn Gln Leu
 145 150 155 160
 Lys Thr Ile Thr Gln Lys Tyr Gly Ala Ala Ser Arg Tyr Val His Val
 165 170 175
 Gly Thr Ala Val Ser Gly Gly Thr Phe Ser Gly Asp Lys Met Val Arg
 180 185 190
 Arg Leu Leu Asn Leu Thr Gly Gly Tyr Leu Glu Ser Tyr His Ser Val
 195 200 205
 Ser Met Gly Asn Thr Ala Ala Ala Thr Pro Tyr Thr Tyr Gly Thr Ala
 210 215 220
 Ala Ser Gly Ser Ser Leu Asp Thr Leu Leu Asp Thr Lys Leu Val Ile
 225 230 235 240
 Leu Trp Gly His Asn Pro Thr Glu Thr Ile Phe Gly His Ser Asn His
 245 250 255
 Phe Tyr Gln Lys Met Lys Gln Asn Gly Thr Arg Phe Ile Val Val Asp
 260 265 270
 Pro Arg Tyr Ser Asp Thr Val Ser Ser Leu Ala Asp Gln Trp Ile Pro
 275 280 285
 Leu Leu Pro Ala Thr Asp Asn Ala Leu Met Asp Ala Met Met Tyr Val
 290 295 300
 Ile Val Thr Glu Asn Leu His Asp Arg Asp Phe Ile Gln Arg Tyr Thr
 305 310 315 320
 Leu Gly Phe Asp Glu Asp Ala Met Pro Glu Gly Val Pro Ala Asn Glu
 325 330 335
 Ser Leu Met Ala Tyr Leu Ser Gly Ala Lys Asp Gly Val Ala Lys Thr
 340 345 350
 Pro Glu Trp Ala Glu Lys Ile Thr His Val Pro Ala Gln Thr Ile Arg
 355 360 365

Gln Leu Ala Arg Asp Tyr Ala Thr Thr Lys Pro Ala Ala Leu Ile Gln
 370 375 380
 Gly Trp Gly Pro Gln Arg His Asn Cys Gly Glu Arg Thr Ala Arg Gly
 385 390 395 400
 Ser Thr Ile Leu Ala Thr Leu Thr Gly Asn Val Gly Val Lys Gly Gly
 405 410 415
 Trp Ala Ala Gly Tyr Gly Gly Cys Ala Asn Arg Lys Phe Ala Ala Gly
 420 425 430
 Pro Glu Met Pro Asp Asn Pro Val Lys Ala Lys Ile Ser Val Met Asn
 435 440 445
 Trp Val Gln Ala Ala Asp Asp Ala Ser Lys Val Thr Ala Glu Asp Gly
 450 455 460
 Leu Lys Asp Ala Glu Lys Leu Asp Ser Asn Ile Arg Ile Leu Phe Ser
 465 470 475 480
 Leu Ala Gly Asn Tyr Leu Ala Asn Gln Asn Pro Asp Leu His Gln Ala
 485 490 495
 Thr Arg Val Leu Glu Asp Glu Ser Lys Ile Glu Phe Ile Val Ala Ser
 500 505 510
 Asp Leu Phe Met Thr Pro Ser Ala Arg Tyr Ala Asp Leu Leu Leu Pro
 515 520 525
 Glu Thr Ser Phe Met Glu Arg Trp Asn Ile Gly Glu Thr Trp Gly Thr
 530 535 540
 Ala Ser Tyr Leu Ile Leu Ser Glu Lys Leu Ile Glu Pro Glu Phe Glu
 545 550 555 560
 Arg Arg Ser Asp Tyr Asp Trp Leu Arg Glu Val Ala Ala Lys Leu Gly
 565 570 575
 Val Glu Pro Ala Phe Ser Glu Gly Arg Asp Glu Lys Ala Trp Ile Glu
 580 585 590
 His Ile Trp Glu Gln Thr Arg Leu Ser Met Pro Asp Glu Asn Leu Pro
 595 600 605
 Asp Phe Ala Thr Leu Gln Lys Thr Arg Gln His Leu Phe Lys Ser Ala
 610 615 620
 Pro Tyr Val Ala Phe Glu Asp Asn Ile Arg Asp Pro Gln Asn His Pro
 625 630 635 640
 Phe Pro Thr Pro Ser Gly Lys Ile Glu Ile Phe Ser Lys Arg Leu Tyr
 645 650 655
 Asp Met His His Pro Glu Ile Pro Ala Leu Ser His Tyr Val Pro Ala
 660 665 670
 His Glu Gly Pro Glu Asp Glu Leu Ala Lys Thr Phe Pro Leu Gln Leu
 675 680 685
 Ile Thr Trp Lys Gly Lys Asn Arg Ala Asn Ser Thr Gln Tyr Ala Asn
 690 695 700
 Pro Trp Leu Ile Glu Ala Gln Gln Gln Lys Leu Trp Ile Asn Pro Gln
 705 710 715 720
 Asp Ala Gln Lys Arg Gly Ile Ala Gln Gly Asp Thr Val Arg Ile His
 725 730 735
 Asn Ala Arg Gly Ile Cys Glu Ile Pro Ala Glu Val Thr Pro Arg Ile
 740 745 750
 Ile Pro Gly Val Val Ala Met Gln Ala Gly Ala Trp Trp Gln Pro Asp
 755 760 765
 Glu Gln Gly Ile Asp Lys Gly Gly Cys Ala Asn Val Leu Ser Ser Ala
 770 775 780
 Arg Ile Thr Ala Leu Ala Lys Gly Asn Ser His Gln Thr Met Leu Val
 785 790 795 800
 Glu Val Ala Lys Ala
 805

<210> 9355

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 9355

Ser	Lys	Arg	Ile	Arg	Ala	Gln	Arg	Lys	Arg	Gly	Asn	Val	Met	His	Glu
1			5					10						15	
Leu	Pro	Leu	Leu	Ile	Phe	Thr	Leu	Phe	Leu	Gln	Gly	Ser	Val	Gly	Val
		20					25					30			
Thr	Leu	Trp	Leu	Ala	Phe	Gly	Ser	Thr	Gln	Arg	Ser	Val	Leu	Leu	Pro
	35					40					45				
Ala	Ala	Gly	Ala	Phe	Val	Leu	Ala	Ser	Leu	Gly	Leu	Leu	Ala	Ser	Ala
	50					55				60					
Leu	His	Met	Gly	Tyr	Pro	Leu	Asn	Ala	Leu	Asn	Ala	Leu	Arg	His	Val
65				70				75						80	
Ser	Ser	Ser	Trp	Leu	Ser	Arg	Glu	Ile	Ile	Phe	Ala	Ser	Leu	Tyr	Leu
			85					90						95	
Ala	Ala	Leu	Gly	Phe	Ala	Thr	Leu	Leu	Met	Ile	Val	Lys	Lys	Pro	Gly
		100					105					110			
Trp	Lys	Pro	Leu	Leu	Val	Val	Ser	Gly	Leu	Val	Gly	Leu	Val	Asp	Val
	115						120				125				
Phe	Cys	Met	Ala	Gln	Ile	Tyr	Met	His	Ala	Ser	Val	Val	Thr	Trp	Gln
	130					135					140				
His	Val	Asn	Thr	Leu	Val	Leu	Phe	Ile	Gly	Ser	Val	Gly	Ile	Ile	Gly
145				150					155						160
Ser	Ala	Cys	Met	Val	Val	Gly	Thr	Arg	Ser	Gln	Ser	Thr	Val	Arg	Ala
			165					170						175	
Ala	Val	Val	Ile	Ile	Thr	Leu	Leu	Val	Leu	Val	Arg	Leu	Val	Met	Gln
		180					185					190			
Pro	Val	Trp	Leu	Ala	Asp	Ile	Thr	Ser	Met	Asp	His	Thr	Val	Val	Thr
	195					200					205				
Phe	Pro	His	Ala	Pro	Leu	Gln	Met	Leu	Glu	Gln	Leu	Arg	Thr	Val	His
	210				215						220				
Leu	Leu	Ser	Trp	Cys	Val	Ser	Val	Ala	Gly	Met	Leu	Cys	Phe	Ala	Ala
225				230					235						240
Gly	Gly	Leu	Lys	Ala	Ala	Arg	Ser	Pro	Ile	Leu	Leu	Gly	Gly	Ala	Leu
			245					250						255	
Leu	Ile	Val	Gly	Glu	Leu	Met	Leu	Arg	Phe	Val	Phe	Phe	Ser	Ile	Gly
			260				265						270		

<210> 9356

<211> 172

<212> PRT

<213> Enterobacter cloacae

<400> 9356

Ala	Met	Ala	Leu	Leu	Leu	Phe	Ile	Ile	Arg	Ala	Thr	Pro	Tyr	Ser	Gly
1			5					10						15	
Met	Gln	Lys	Gln	Asn	Ile	Leu	Gln	Arg	Leu	Ser	Met	Ala	Ile	Glu	
		20					25					30			
Arg	Thr	Phe	Ser	Ile	Ile	Lys	Pro	Asn	Ala	Val	Ala	Lys	Asn	Val	Ile
		35				40					45				
Gly	Ser	Ile	Phe	Ala	Arg	Phe	Glu	Ser	Ala	Gly	Phe	Lys	Ile	Val	Gly
	50					55				60					
Thr	Lys	Met	Leu	His	Leu	Thr	Val	Glu	Gln	Ala	Arg	Gly	Phe	Tyr	Ala
65				70					75					80	
Glu	His	Glu	Gly	Arg	Pro	Phe	Phe	Asp	Gly	Leu	Val	Glu	Phe	Met	Thr
			85					90						95	
Ser	Gly	Pro	Ile	Val	Val	Ser	Val	Leu	Glu	Gly	Glu	Asn	Ala	Val	Gln
		100					105					110			
Arg	His	Arg	Asp	Leu	Leu	Gly	Ala	Thr	Asn	Pro	Asp	Asn	Ala	Leu	Ala
		115					120					125			

Gly Thr Leu Arg Ala Asp Tyr Ala Asp Ser Phe Thr Glu Asn Gly Thr
 130 135 140
 His Gly Ser Asp Ser Val Glu Ser Ala Ala Arg Glu Ile Ala Phe Phe
 145 150 155 160
 Phe Ala Glu Gly Glu Val Cys Pro Arg Thr Arg
 165 170

<210> 9357

<211> 437

<212> PRT

<213> Enterobacter cloacae

<400> 9357

Phe Arg Lys Cys Arg Val Gln Thr Trp His Pro Cys Ala Arg Leu Cys
 1 5 10 15
 Thr Met Gln Arg Pro Gly Arg Ala Asp Cys Leu Pro Gly Arg Phe Phe
 20 25 30
 Ser Thr His Gln Gly Pro Gln Arg Val Thr Thr Arg Pro Glu Lys Ile
 35 40 45
 Met Ser Glu Leu Val Asn Thr Ser Glu Val Ala Ile Pro Ala Val Pro
 50 55 60
 Asn Lys Asn Gly Lys Ile Asn Leu Leu Asp Leu Asn Arg Gln Gln Met
 65 70 75 80
 Arg Glu Phe Phe Lys Glu Met Gly Glu Lys Pro Phe Arg Ala Asp Gln
 85 90 95
 Val Met Lys Trp Met Tyr His Tyr Cys Ser Asp Asn Phe Asp Asp Met
 100 105 110
 Thr Asp Ile Asn Lys Val Leu Arg Asn Lys Leu Lys Glu Val Ala Glu
 115 120 125
 Ile Arg Ala Pro Glu Val Val Glu Glu Gln Arg Ser Asp Gly Thr
 130 135 140
 Ile Lys Trp Ala Ile Ala Val Gly Asp Gln Arg Val Glu Thr Val Tyr
 145 150 155 160
 Ile Pro Glu Asp Asp Arg Ala Thr Leu Cys Val Ser Ser Gln Val Gly
 165 170 175
 Cys Ala Leu Glu Cys Lys Phe Cys Ser Thr Ala Gln Gln Gly Phe Asn
 180 185 190
 Arg Asn Leu Arg Val Ser Glu Ile Ile Gly Gln Val Trp Arg Ala Ala
 195 200 205
 Lys Ile Val Gly Ala Ala Lys Val Thr Gly Thr Arg Pro Ile Thr Asn
 210 215 220
 Val Val Met Met Gly Met Gly Glu Pro Leu Leu Asn Leu Thr Asn Val
 225 230 235 240
 Val Pro Ala Met Glu Ile Met Leu Asp Asp Phe Gly Phe Gly Leu Ser
 245 250 255
 Lys Arg Arg Val Thr Leu Ser Thr Ser Gly Val Val Pro Ala Leu Asp
 260 265 270
 Lys Leu Gly Asp Met Ile Asp Val Ala Leu Ala Ile Ser Leu His Ala
 275 280 285
 Pro Asn Asp Ala Ile Arg Asp Glu Ile Val Pro Ile Asn Lys Lys Tyr
 290 295 300
 Asn Ile Glu Thr Phe Leu Ala Gly Val Arg Arg Tyr Leu Glu Lys Ser
 305 310 315 320
 Asn Ala Asn Gln Gly Arg Val Thr Ile Glu Tyr Val Met Leu Asp His
 325 330 335
 Val Asn Asp Gly Thr Glu His Ala His Glu Leu Ala Glu Leu Lys
 340 345 350
 Asp Thr Pro Cys Lys Ile Asn Leu Ile Pro Trp Asn Pro Phe Pro Gly
 355 360 365
 Ala Pro Tyr Gly Arg Ser Ser Asn Ser Arg Ile Asp Arg Phe Ser Lys
 370 375 380

Val Leu Met Glu Tyr Gly Phe Thr Thr Ile Val Arg Lys Thr Arg Gly
 385 390 395 400
 Asp Asp Ile Asp Ala Cys Gly Gln Leu Ala Gly Asp Val Ile Asp
 405 410 415
 Arg Thr Lys Arg Thr Leu Arg Lys Arg Met Gln Gly Glu Ser Ile Ala
 420 425 430
 Val Lys Thr Val
 435

<210> 9358

<211> 337

<212> PRT

<213> Enterobacter cloacae

<400> 9358

Arg Met Asn Thr Glu Ala Thr His Asp Gln Asn Ala Ala Leu Ser Thr
 1 5 10 15
 Gly Val Arg Leu Arg Asn Ala Arg Glu Gln Leu Gly Leu Ser Gln Gln
 20 25 30
 Ala Val Ala Glu Arg Leu Cys Leu Lys Val Ser Thr Val Arg Asp Ile
 35 40 45
 Glu Glu Asp Lys Ala Pro Ala Asp Leu Ala Ser Thr Phe Leu Arg Gly
 50 55 60
 Tyr Ile Arg Ser Tyr Ala Lys Leu Val His Ile Pro Glu Asp Glu Leu
 65 70 75 80
 Leu Pro Met Met Glu Lys Gln Ala Pro Val Arg Ala Ala Lys Val Ala
 85 90 95
 Pro Met Gln Ser Phe Ser Leu Gly Lys Arg Arg Lys Lys Arg Asp Gly
 100 105 110
 Trp Leu Met Ser Phe Thr Trp Leu Val Leu Phe Val Val Gly Leu
 115 120 125
 Thr Gly Ala Trp Trp Trp Gln Asn His Lys Ala Gln Gln Glu Glu Ile
 130 135 140
 Thr Thr Met Ala Asp Gln Ser Ser Ala Glu Leu Asn Gln Ser Gly Asn
 145 150 155 160
 Asn Gly Ala Gln Ser Val Pro Leu Ser Thr Glu Gly Ala Thr Ser Ser
 165 170 175
 Glu Pro Gln Ser Ala Ala Ser Asn Thr Pro Ala Thr Glu Pro Ala Ala
 180 185 190
 Thr Pro Glu Ala Thr Thr Asn Thr Ala Pro Ala Thr Gln Thr Gln Asp
 195 200 205
 Gln Asn Ala Val Val Ser Pro Ser Gln Ala Asn Val Asp Thr Ala Pro
 210 215 220
 Ala Ala Thr Ala Pro Ala Glu Asn Thr Ala Ala Ser Leu Pro Thr Asp
 225 230 235 240
 Pro Ala Gly Thr Ala Ala Pro Ala Val Asp Pro Asn Ala Leu Val Met
 245 250 255
 Asn Phe Thr Ala Asp Cys Trp Leu Glu Val Thr Asp Ala Thr Gly Lys
 260 265 270
 Lys Leu Phe Ser Gly Leu Gln Arg Lys Asp Gly Thr Leu Asn Leu Thr
 275 280 285
 Gly Gln Ala Pro Tyr Lys Leu Lys Ile Gly Ala Pro Ala Ala Val Gln
 290 295 300
 Ile Gln Tyr Gln Gly Lys Pro Val Asp Leu Ser Arg Phe Ile Arg Thr
 305 310 315 320
 Asn Gln Val Ala Arg Leu Thr Val Asn Ala Glu Gln Ser Ala Ala Gln
 325 330 335

<210> 9359

<211> 226
 <212> PRT
 <213> Enterobacter cloacae

<400> 9359

Arg	Arg	Met	Ala	Leu	Arg	Arg	Thr	Cys	Ala	Leu	Tyr	Trp	Ala	Lys	Glu
1				5					10					15	
Lys	Asp	Cys	Val	Glu	Ile	Tyr	Glu	Asn	Glu	His	Asp	Gln	Val	Asp	Ala
			20					25					30		
Val	Lys	Arg	Phe	Phe	Ala	Glu	Asn	Gly	Lys	Ala	Leu	Val	Val	Gly	Val
			35				40					45			
Ile	Leu	Gly	Val	Gly	Ala	Leu	Val	Gly	Trp	Arg	Tyr	Trp	Asn	Asn	His
	50					55					60				
Gln	Ala	Asp	Ser	Ala	Arg	Gly	Ser	Ser	Leu	Asn	Tyr	Glu	Asn	Thr	Val
65					70					75				80	
Ser	Ala	Ile	Arg	Ala	Asp	Gln	Pro	Gln	Thr	Leu	Thr	Ala	Ala	Glu	Lys
				85					90					95	
Phe	Ala	Ala	Asp	Asn	Lys	Asn	Thr	Tyr	Gly	Ala	Leu	Ala	Ala	Leu	Glu
			100					105					110		
Val	Ala	Gln	Gln	Tyr	Val	Asp	Lys	Asn	Glu	Leu	Asp	Lys	Ala	Ala	Ala
		115					120					125			
Gln	Leu	Ser	Gln	Gly	Leu	Ala	Ala	Ser	Asp	Asp	Asn	Leu	Lys	Ala	
	130					135					140				
Val	Ile	Asn	Leu	Arg	Leu	Ala	Arg	Ile	Gln	Val	Gln	Gln	Lys	Lys	Ala
145					150					155					160
Asp	Asp	Ala	Leu	Lys	Thr	Leu	Asp	Thr	Ile	Lys	Gly	Glu	Gly	Phe	Ala
				165				170						175	
Ala	Ile	Val	Ala	Asp	Leu	Arg	Gly	Glu	Ala	Leu	Leu	Ser	Lys	Gly	Asp
			180					185					190		
Lys	Ala	Gly	Ala	Arg	Lys	Ala	Trp	Gln	Ala	Gly	Val	Asp	Ser	Lys	Ala
		195					200					205			
Ser	Pro	Ala	Leu	Ser	Glu	Met	Gln	Met	Lys	Ile	Asn	Asn	Leu	Ser	
	210					215				220					
Val															
225															

<210> 9360
 <211> 317
 <212> PRT
 <213> Enterobacter cloacae

<400> 9360

Ser	Gly	Glu	Lys	Ile	Gly	Ala	Cys	Ser	Arg	Val	Glu	Arg	Gly	Glu	Leu
1				5					10					15	
Val	Gly	Val	Arg	Lys	Asn	Thr	Asp	Asn	Pro	Phe	Leu	Arg	Lys	Arg	Met
			20					25					30		
Glu	Ala	Thr	Met	Ser	Thr	Ser	Tyr	Phe	Val	Ala	Ala	Asp	Trp	Leu	Ile
		35					40					45			
Glu	His	Gly	Asp	Asp	Pro	Glu	Val	Gln	Ile	Ile	Asp	Ala	Arg	Met	Ala
	50					55					60				
Pro	Pro	Gly	Gln	Glu	His	Arg	Asp	Val	Pro	Ala	Glu	Tyr	Arg	Ala	Gly
65					70					75				80	
His	Leu	Pro	Gly	Ala	Val	Phe	Phe	Asp	Ile	Glu	Ala	Leu	Ser	Asp	His
				85				90						95	
Thr	Ser	Ser	Leu	Pro	His	Met	Leu	Pro	Arg	Pro	Glu	Ala	Phe	Ser	Val
			100					105					110		
Ala	Met	Arg	Glu	Leu	Gly	Ile	Ser	Lys	Asp	Lys	His	Leu	Ile	Val	Tyr
		115					120					125			
Asp	Glu	Gly	Asn	Leu	Phe	Ser	Ala	Pro	Arg	Ala	Trp	Trp	Met	Leu	Lys
	130					135					140				
Asn	Phe	Gly	Val	Glu	Lys	Val	Ser	Ile	Leu	Ala	Gly	Gly	Leu	Ala	Gly

145					150					155				160
Trp	Lys	Arg	Asp	Glu	Leu	Pro	Leu	Gln	Gln	Gly	Asp	Val	Thr	Leu
				165					170					175
Glu	Gly	Glu	Phe	Asp	Ala	Thr	Phe	Asp	Ala	Asn	Val	Val	Lys	Arg
			180					185					190	
Thr	Asp	Val	Leu	Val	Val	Ser	His	Glu	Asn	Thr	Ala	Gln	Ile	Val
		195					200					205		
Ala	Arg	Pro	Ala	Pro	Arg	Phe	Asn	Ala	Glu	Ala	Asp	Glu	Pro	Arg
		210				215					220			
Gly	Leu	Lys	Arg	Gly	His	Ile	Pro	Gly	Ala	Leu	Asn	Val	Pro	Trp
225					230					235				240
Asp	Leu	Val	Phe	Glu	Gly	Glu	Leu	Lys	Thr	Thr	Asp	Glu	Leu	Arg
				245					250					255
Ile	Phe	Glu	Arg	Gln	Gly	Val	Asp	Leu	His	Arg	Pro	Val	Ile	Ala
			260				265						270	
Cys	Gly	Ser	Gly	Val	Thr	Ala	Cys	Val	Val	Ile	Leu	Ala	Leu	Ala
		275					280					285		
Leu	Asp	Ala	Asn	Asp	Val	Thr	Leu	Tyr	Asp	Gly	Ala	Trp	Ser	Glu
		290				295					300			
Gly	Ala	Arg	Asp	Asp	Leu	Pro	Val	Glu	Pro	Ala	Lys			
305					310					315				

<210> 9361

<211> 451

<212> PRT

<213> Enterobacter cloacae

<400> 9361

Lys	Ala	Cys	Arg	Cys	Ala	Phe	Gln	Arg	Pro	Ser	Phe	Ser	Tyr	Ser	Tyr
1				5					10					15	
Gln	Thr	Phe	Thr	Leu	Asp	Thr	Arg	Gln	Met	Met	Thr	Thr	Leu	Glu	Ile
			20					25					30		
Pro	Ser	Val	Leu	Ser	Ser	Ser	Gln	Arg	Arg	Cys	Gln	Val	Leu	Leu	Met
		35					40					45			
Leu	Tyr	Leu	Pro	Asp	Ala	Ala	Val	Thr	Ala	Gln	Ser	Ile	Ile	Ala	Ala
		50			55						60				
Asn	Gly	Val	Asp	Asp	Val	Met	Ala	Arg	Gln	Asp	Ile	Ala	Glu	Thr	Arg
65					70					75					80
Asp	Glu	Ile	Gln	Arg	Tyr	His	Arg	Leu	Asp	Ile	Val	Thr	His	His	Asp
			85						90					95	
Gly	Cys	Tyr	Arg	Ile	Glu	Gly	Ser	Ala	Leu	Asn	Gln	Arg	Leu	Cys	Leu
			100					105					110		
Leu	His	Trp	Leu	Arg	Arg	Ala	Leu	Arg	Leu	Cys	Pro	His	Phe	Val	Ala
		115					120					125			
Gln	Gln	Phe	Thr	Pro	Ala	Leu	Lys	Thr	Ala	Leu	Lys	Gln	His	Gly	Ile
		130				135					140				
Ala	Arg	Pro	Leu	Tyr	Asp	Asp	Ala	Asn	Leu	Arg	Ala	Leu	Ile	Asn	Phe
145					150					155					160
Cys	Ala	Arg	Lys	Leu	Gln	Arg	Gln	Phe	Glu	Ser	Arg	Asp	Val	Gln	Phe
				165					170					175	
Leu	Gln	Leu	Tyr	Leu	Gln	Tyr	Cys	Leu	Ile	Gln	His	His	Leu	Gly	Asn
		180					185						190		
Thr	Pro	Glu	Phe	Ser	Pro	Val	Gln	Arg	Ser	Trp	Thr	Leu	Ser	Arg	Gly
		195					200					205			
Glu	Tyr	Phe	Thr	Ala	Gln	Glu	Ile	Val	Arg	His	Trp	Lys	Arg	Arg	Val
		210				215					220				
Pro	Gln	Gly	Thr	His	Ser	Asp	Glu	Gln	Leu	Phe	Leu	Ala	Leu	Leu	Phe
225					230					235					240
Met	Met	Leu	Arg	Thr	Pro	Asp	Pro	Val	Met	Asp	Lys	His	Gln	Gln	Asp
				245					250					255	
Gln	Arg	Leu	Arg	Arg	Ala	Ile	Val	Arg	Met	Ile	Ala	Arg	Phe	Arg	Ala

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<210> 9362
<211> 524
<212> PRT
<213> Enterobacter cloacae
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Val 1	Arg	Gly	Ser	Ile 5	Arg	Glu	Lys	Ala	Met 10	Lys	Arg	Ala	Val	Asn 15	Ala
Leu	Gln	Asn	Phe 20	Gly	Lys	Ser	Leu	Tyr 25	Gly	Pro	Val	Leu	Ile 30	Leu	Pro
Ile	Val	Gly 35	Leu	Phe	Ile	Ala	Phe 40	Gly	Asn	Val	Leu	Gly 45	Asn	Gly	Asn
Leu	Ala 50	Glu	Tyr	Met	Pro	Phe 55	Leu	Gly	His	Pro	Leu	Ile 60	Gln	Ser	Val
Gly 65	Gln	Leu	Ile	Ala 70	Lys	Ser	Ala	Val	Ser 75	Val	Leu	Val	Asn	Leu	Ala 80
Leu	Val	Phe	Ala 85	Val	Gly	Ile	Pro	Ile	Gly 90	Leu	Ala	Thr	Arg	Asp 95	Lys
Gly	Tyr	Ala	Ala 100	Leu	Ile	Gly	Leu	Val 105	Thr	Phe	Ile	Val	Phe 110	Ile	Asn
Ala	Met	Asn 115	Val	Thr	Leu	Gln 120	Leu	Gln	Gly	Glu	Leu	Ala 125	Pro	Ala	Glu
Gln	Met 130	Lys	Ala	Ala	Gly	Gln 135	Ser	Met	Val	Leu	Gly 140	Val	Gln	Val	Leu
Glu 145	Met	Gly	Val	Phe 150	Ala	Gly	Ile	Leu	Thr 155	Gly	Ala	Leu	Ser	Gly	Tyr 160
Leu	Tyr	Asn	Lys 165	Tyr	Ser	Gly	Val	Gln 170	Phe	Asn	Gly	Ala	Met 175	Ala	Ile
Tyr	Ser	Gly 180	His	Cys	Phe	Val	Ala 185	Ile	Val	Met	Leu	Pro 190	Val	Ser	Met
Leu	Leu	Gly 195	Val	Ile	Met	Ser	Glu 200	Leu	Trp	Pro	Tyr	Ala 205	Gln	His	Gly
Ile	Ser 210	Ala	Leu	Ala	Leu	Ala 215	Ile	Lys	Gly	Ser	Gly 220	Pro	Phe	Gly	Val
Ala	Ile	Tyr	Gly	Phe	Leu	Glu	Arg	Ile	Leu	Val	Pro	Thr	Gly	Leu	His

225					230					235					240
His	Leu	Val	Tyr	Thr	Pro	Phe	Leu	Tyr	Thr	Glu	Leu	Gly	Gly	Thr	Gln
				245					250					255	
Glu	Val	Cys	Gly	Thr	Ala	Tyr	Gln	Gly	Ala	Arg	Asn	Ile	Tyr	Phe	Ala
			260					265					270		
Glu	Met	Ala	Cys	Pro	Asp	Val	Lys	Gln	Leu	Ser	Ser	Thr	Val	Val	Trp
		275					280					285			
Asp	Ala	Arg	Gly	Ile	Ser	Lys	Met	Phe	Gly	Leu	Pro	Ala	Ala	Ala	Leu
	290					295					300				
Ala	Met	Tyr	Met	Thr	Ala	Lys	Pro	Glu	Arg	Lys	Ala	Ile	Ala	Lys	Ala
305					310					315					320
Ile	Leu	Ile	Pro	Ala	Ala	Leu	Thr	Ser	Leu	Leu	Val	Gly	Val	Thr	Glu
				325					330					335	
Pro	Ile	Glu	Phe	Ser	Phe	Leu	Phe	Val	Ala	Pro	Leu	Leu	Phe	Val	Val
			340					345					350		
His	Ala	Val	Leu	Thr	Gly	Ile	Gly	Met	Met	Leu	Phe	Ser	Leu	Phe	Gly
	355						360					365			
Val	His	Ala	Ile	Gly	Ala	Asn	Gly	Ile	Ile	Asp	Phe	Ile	Leu	Tyr	Asn
	370					375					380				
Leu	Pro	Leu	Gly	Thr	Glu	Lys	Ser	Asn	Trp	Pro	Met	Tyr	Ile	Val	Val
385					390					395					400
Gly	Leu	Ile	Met	Phe	Ala	Leu	Tyr	Phe	Val	Val	Phe	Arg	Phe	Leu	Ile
			405						410					415	
Leu	Arg	Phe	Asn	Met	Lys	Thr	Pro	Gly	Arg	Glu	Asp	Glu	Asp	Gln	Glu
			420					425					430		
Thr	Arg	Leu	Tyr	Ser	Lys	Gln	Glu	Tyr	Gln	Ala	Lys	Gly	Asn	Asn	Asp
	435						440					445			
Gly	Leu	Gly	Glu	Ser	Ile	Val	Val	Gly	Leu	Gly	Gly	Arg	Glu	Asn	Ile
	450					455				460					
Glu	Val	Val	Asp	Asn	Cys	Tyr	Thr	Arg	Leu	Arg	Val	Thr	Val	Lys	Asp
465					470					475					480
Val	Ala	Ile	Ile	Asp	Glu	Pro	Arg	Leu	Lys	Ala	Thr	Gly	Ala	Lys	Gly
				485					490					495	
Ile	Ile	Lys	Gln	Gly	Asn	Asn	Val	Gln	Val	Val	Tyr	Gly	Leu	His	Val
		500						505					510		
Lys	Lys	Met	Arg	Glu	Ala	Val	Glu	Thr	Phe	Leu					
		515					520								

<210> 9363

<211> 460

<212> PRT

<213> Enterobacter cloacae

<400> 9363

Lys	Glu	Leu	Lys	Met	Phe	Thr	Pro	Pro	Phe	Ile	Leu	Ser	Ile	Ala	Gly
1				5					10					15	
Gly	Gly	Ser	Thr	Tyr	Thr	Pro	Gly	Ile	Val	Lys	Ser	Leu	Met	Val	Arg
			20					25					30		
Leu	His	Asp	Phe	Pro	Leu	Ala	Glu	Ile	Arg	Leu	Tyr	Asp	Ile	Asp	Glu
		35					40					45			
Ala	Arg	Gln	Asn	Thr	Ile	Ala	Pro	Val	Val	Glu	Lys	Val	Ile	Arg	Asp
	50					55					60				
His	Ser	Gln	Ser	Ile	Lys	Phe	Thr	Val	Thr	Ser	Asp	Pro	Glu	Val	Ala
65					70					75					80
Phe	Ser	Gly	Ala	His	Phe	Val	Phe	Ala	Gln	Met	Arg	Val	Gly	Gln	Tyr
				85					90					95	
Lys	Met	Arg	Glu	Gln	Asp	Glu	Lys	Ile	Pro	Leu	Arg	His	Gly	Val	Val
			100					105					110		
Gly	Gln	Glu	Thr	Cys	Gly	Pro	Gly	Gly	Leu	Ala	Tyr	Gly	Leu	Arg	Thr
		115					120					125			
Ile	Leu	Pro	Met	Val	Glu	Leu	Ile	Asp	Leu	Val	Asp	Arg	Tyr	Ala	His

130	135	140
Glu Lys Ala Trp Ile Val	Asn Tyr Ser Asn Pro	Ala Ala Ile Val Ala
145	150	155
Glu Gly Val Arg Arg Leu	Arg Pro Asn Ala Arg	Val Leu Asn Ile Cys
	165	170
Asp Met Pro Val Ala Ala	Met Arg Asn Met Gly	Ala Ile Leu Gly Val
	180	185
Asp Arg His Lys Leu Glu	Val Asp Tyr Phe Gly	Leu Asn His Phe Gly
	195	200
Trp Phe Thr Arg Val Leu	Val Asp Gly Glu Asp	Lys Leu Pro Glu Leu
	210	215
Arg Lys His Ile Ala Lys	Phe Gly Leu Leu Thr	Glu Asp Ala Ala Lys
225	230	235
Thr Asp Pro Gln His Ser	Asp Pro Ser Trp Val	Lys Thr Trp Arg Asn
	245	250
Ile Lys Pro Ile Met Asp	Asn Phe Pro Glu Tyr	Leu Pro Asn Pro Tyr
	260	265
Leu Gln Tyr Tyr Leu Met	Pro Asn Gln Ile Val	Glu His Gln Asn Pro
	275	280
Asp Tyr Thr Arg Ala Asn	Glu Val Met Asn Gly	Arg Glu Lys Lys Leu
	290	295
Phe Ala Ala Ala Glu Glu	Tyr Gln Arg Thr Gly	Ile Leu Pro Asp Ala
305	310	315
Phe His Val Gly Val His	Gly Glu Phe Ile Val	Asp Val Ala Cys Ser
	325	330
Leu Ala Phe Asn Leu Arg	Ser Arg His Leu Val	Met Val Glu Asn Arg
	340	345
Gly Ala Ile Thr Asn Leu	Pro Tyr Asp Ala Val	Val Glu Val Pro Ala
	355	360
Tyr Ile Thr Ser Glu Gly	Pro Glu Pro Val Arg	Val Gly Gln Val Pro
	370	375
Leu Phe His Gln Thr Leu	Gln Gln Gln Leu Ala	Ser Glu Gln Leu
385	390	395
Leu Val Glu Ala Thr Ile	Glu Gly Ser Tyr Glu	Lys Ala Leu Gln Ala
	405	410
Phe Thr Leu Asn Arg Thr	Val Pro Thr Met Glu	His Ala Lys Ala Ile
	420	425
Leu Asp Glu Met Ile Glu	Ala Asn Arg Asp Tyr	Trp Pro Ala Leu Gln
	435	440
Lys Ala Trp Gln Asp Gly	Glu Ala Val Lys Lys	
450	455	460

<210> 9364

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 9364

Glu Arg Pro Met His Pro	Met Leu Thr Ile Ala	Val Arg Ala Ala Arg
1	5	10
Lys Ala Gly Asn Val Ile	Ala Lys His Tyr Glu	Thr Pro Asp Ser Val
	20	25
Glu Thr Ser Gln Lys Gly	Ser Asn Asp Phe Val	Thr Asn Val Asp Lys
	35	40
Ala Ala Glu Ala Ile Ile	Ile Glu Thr Ile Arg	Lys Ser Tyr Pro Gln
	50	55
His Thr Ile Ile Thr Glu	Ser Gly Glu His Glu	Gly Thr Asp Gln
65	70	75
Asp Val Gln Trp Val Ile	Asp Pro Leu Asp Gly	Thr Thr Asn Phe Val
	85	90
Lys Arg Leu Pro His Phe	Ser Val Ser Ile Ala	Val Arg Ile Lys Gly

			100					105				110			
Arg	Thr	Glu	Val	Ala	Val	Val	Tyr	Asp	Pro	Met	Arg	Asn	Glu	Leu	Phe
		115					120					125			
Thr	Ala	Thr	Arg	Gly	Gln	Gly	Ala	Gln	Leu	Asn	Gly	Tyr	Arg	Leu	Arg
		130					135					140			
Cys	Ser	Asn	Ala	Arg	Asp	Leu	Asp	Gly	Thr	Ile	Leu	Ala	Thr	Gly	Phe
145					150					155					160
Pro	Phe	Lys	Ala	Lys	Gln	His	Ala	Thr	Thr	Tyr	Met	Asn	Ile	Leu	Gly
				165						170					175
Lys	Leu	Phe	Thr	Glu	Cys	Ala	Asp	Phe	Arg	Arg	Thr	Gly	Ser	Ala	Ala
			180					185					190		
Leu	Asp	Leu	Ala	Tyr	Val	Ala	Thr	Gly	Arg	Val	Asp	Gly	Tyr	Phe	Glu
		195					200					205			
Leu	Ser	Leu	Lys	Pro	Trp	Asp	Phe	Ala	Ala	Gly	Glu	Leu	Ile	Ala	Arg
		210				215					220				
Glu	Ala	Gly	Ala	Ile	Val	Cys	Asp	Phe	Thr	Gly	Gly	His	Asn	Tyr	Met
225				230						235					240
Ser	Thr	Gly	Asn	Ile	Val	Ala	Gly	Asn	Pro	Arg	Val	Val	Lys	Ala	Met
			245					250						255	
Leu	Ala	Asn	Met	Arg	Asp	Glu	Leu	Ser	Asp	Ala	Leu	Lys	Arg		
			260					265					270		

<210> 9365

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 9365

Asn	Cys	Ile	Thr	Phe	Ile	Arg	His	Arg	Leu	Lys	Arg	Ser	Phe	Ala	Met
1				5					10					15	
Asn	Ser	Leu	Arg	Tyr	Phe	Asp	Phe	Gly	Ser	Ser	Arg	Ser	Leu	Leu	Leu
			20					25					30		
Leu	Ile	Ala	Arg	Ile	Ala	Ile	Val	Val	Leu	Phe	Ile	Ile	Phe	Gly	Tyr
		35					40					45			
Pro	Lys	Leu	Thr	Gly	Phe	Ser	Gly	Thr	Val	Gln	Tyr	Met	Thr	Ser	Leu
		50				55					60				
Gly	Ala	Pro	Met	Pro	Met	Leu	Ala	Ala	Ile	Ile	Ala	Val	Val	Met	Glu
65					70					75					80
Val	Pro	Ala	Ala	Ile	Leu	Ile	Val	Leu	Gly	Phe	Phe	Thr	Arg	Pro	Leu
				85					90					95	
Ala	Val	Ile	Phe	Val	Phe	Tyr	Thr	Leu	Gly	Thr	Ala	Val	Ile	Gly	His
			100					105					110		
His	Tyr	Trp	Asp	Met	Thr	Gly	Asp	Ala	Val	Leu	Pro	Asn	Met	Ile	Asn
		115					120					125			
Phe	Tyr	Lys	Asn	Val	Ser	Ile	Ala	Gly	Ala	Phe	Ile	Leu	Leu	Ala	Ile
		130				135						140			
Thr	Gly	Pro	Gly	Ala	Ile	Ser	Leu	Asp	Arg	Arg					
145					150					155					

<210> 9366

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 9366

Thr	Gly	Glu	Ile	Met	Asp	Asn	Arg	Leu	Ala	Thr	Leu	Leu	Thr	Arg	Gly
1				5					10					15	
Ser	Ser	Leu	Thr	Arg	Ala	Glu	Tyr	Arg	Val	Leu	Ala	His	Leu	Thr	Glu
			20					25					30		
His	Pro	Leu	Leu	Val	Gly	Asn	Ile	Thr	Val	Arg	Glu	Leu	Ala	Gln	Ala
		35					40						45		

Thr Phe Val Ser Thr Ala Thr Ile Met Arg Leu Cys Gln Lys Leu Gly
 50 55 60
 Phe Ser Gly Phe Ser Glu Phe Ile Trp His Cys Lys Gln Leu Leu Ser
 65 70 75 80
 Asp Thr Pro His Ile Thr Val Gln Pro Glu Gln His Ala Glu Met Pro
 85 90 95
 Ala Leu Phe Thr Arg Phe Val Ala Asn Tyr Gln Gln Thr Phe Gln Trp
 100 105 110
 Val Thr Gln Asp Lys Arg Gln Gln Phe Ala Ser Leu Leu Arg Gln Lys
 115 120 125
 Glu Ser Phe Phe Leu Tyr Gly Ala Gly Phe Ser Tyr Leu Phe Ala Glu
 130 135 140
 Tyr Leu Thr Lys Lys Leu Gln Val Leu Gly Lys Thr Ala Phe Ile Ser
 145 150 155 160
 Gly Ala Gly Asp Ser Arg Asn Ile Phe Leu Ser Asn Ala Ala Arg Tyr
 165 170 175
 Gln Val Phe Ile Ala Val Ser Arg Ser Gly Glu Thr Glu Gln Val Leu
 180 185 190
 Asp Lys Ala Arg Ile Ala Lys Asn Val Gly Met Thr Ile Val Ala Phe
 195 200 205
 Thr Arg Ala Ser Ala Asn Thr Leu Ala Gly Met Ala Asp Val His Phe
 210 215 220
 Ala Leu Tyr Asp Glu Ala Val His Phe Ala Ala Glu Ala Ala Gly Val
 225 230 235 240
 Thr Ser Phe Glu Ser Asn Leu Val Leu Leu Met Asp Leu Leu Leu Leu
 245 250 255
 Glu Ala Thr Gly
 260

<210> 9367

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 9367

Lys Met Ser Val Ser Thr Ala Arg Cys Lys His Met Ser Asn Gln Arg
 1 5 10 15
 Asn Pro Asp Asp Leu Lys Lys Asn Leu Thr Glu Met Gln Phe Tyr Val
 20 25 30
 Thr Gln Asn His Gly Thr Glu Pro Phe Ser Gly Arg Leu Leu His
 35 40 45
 Asn Lys Arg Glu Gly Val Tyr His Cys Leu Val Cys Asp Ala Pro Leu
 50 55 60
 Phe Asn Ser Gln Thr Lys Tyr Asp Ser Gly Cys Gly Trp Pro Ser Phe
 65 70 75 80
 Tyr Glu Pro Val Ser Asp Asp Ala Ile Arg Tyr Leu Thr Asp Thr Ser
 85 90 95
 His Gly Met Val Arg Thr Glu Ile Arg Cys Gly Asn Cys Asp Ala His
 100 105 110
 Leu Gly His Val Phe Pro Asp Gly Pro Gln Pro Thr Gly Glu Arg Phe
 115 120 125
 Cys Val Asn Ser Ala Ser Met Ser Phe Thr Asp Asp Glu Asn Gly Asp
 130 135 140
 Gln Ile Lys Gly
 145

<210> 9368

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 9368

Pro Met Asp Ala Leu Glu Leu Leu Val Asn Arg Arg Ser Ala Ser Arg
 1 5 10 15
 Leu Ala Glu Pro Ala Pro Val Gly Glu Gln Leu Glu Asn Ile Leu Arg
 20 25 30
 Ala Gly Met Arg Ala Pro Asp His Gly Thr Leu Gln Pro Trp His Phe
 35 40 45
 Phe Ile Ile Glu Gly Glu Gly Arg Gly Arg Phe Ser Gln Leu Leu Glu
 50 55 60
 Gln Gly Ala Val Ala Ala Gly Gln Asp Glu Lys Ala Ile Asp Lys Ala
 65 70 75 80
 Arg Asn Ala Pro Phe Arg Ala Pro Met Ile Ile Ala Val Val Thr Lys
 85 90 95
 Cys Gln Ala Asp His Lys Val Pro Val Trp Glu Gln Glu Met Ser Ala
 100 105 110
 Gly Cys Ala Val Met Ala Met Gln Met Ala Ala Val Ala Gln Gly Phe
 115 120 125
 Asn Gly Ile Trp Arg Thr Gly Pro Leu Thr Glu Ser Ser Val Val Arg
 130 135 140
 Asp Gly Phe Ala Cys Gly Glu His Asp Lys Ile Val Gly Phe Leu Tyr
 145 150 155 160
 Leu Gly Thr Pro Gln Leu Lys Ala Ser Ser Thr Ile Ser Val Pro Asp
 165 170 175
 Thr Thr Pro Phe Val Ser Arg Phe
 180 185

<210> 9369

<211> 642

<212> PRT

<213> Enterobacter cloacae

<400> 9369

Leu Arg Ser Val Asn Ser Met Arg Leu Phe Ile Ala Glu Lys Pro Ser
 1 5 10 15
 Leu Ala Arg Ala Ile Ala Asp Val Leu Pro Lys Pro His Arg Lys Gly
 20 25 30
 Asp Gly Phe Ile Glu Cys Gly Asn Gly Gln Val Val Thr Trp Cys Ile
 35 40 45
 Gly His Leu Leu Glu Gln Ala Gln Pro Asp Val Tyr Asp Ser Arg Tyr
 50 55 60
 Ala Arg Trp Asn Leu Asn Asp Leu Pro Ile Val Pro Glu Lys Trp Arg
 65 70 75 80
 Leu Gln Pro Arg Pro Ser Val Thr Lys Gln Leu Asn Val Ile Lys Arg
 85 90 95
 Phe Leu His Glu Ala Thr Glu Val Val His Ala Gly Asp Pro Asp Arg
 100 105 110
 Glu Gly Gln Leu Leu Val Asp Glu Val Leu Asp Tyr Leu Glu Leu Ala
 115 120 125
 Pro Glu Lys Arg Gln Gln Val Gln Arg Cys Leu Ile Asn Asp Leu Asn
 130 135 140
 Pro Gln Ala Val Glu Arg Ala Ile Ser Arg Leu Arg Ala Asn Ser Glu
 145 150 155 160
 Phe Ile Pro Leu Cys Val Ser Ala Leu Ala Arg Ala Arg Ala Asp Trp
 165 170 175
 Leu Tyr Gly Ile Asn Met Thr Arg Ala Tyr Thr Ile Leu Gly Arg Asn
 180 185 190
 Ala Gly Tyr Gln Gly Val Leu Ser Val Gly Arg Val Gln Thr Pro Val
 195 200 205
 Leu Gly Leu Val Val Arg Arg Asp Glu Glu Ile Glu Asn Phe Val Ala
 210 215 220
 Lys Asp Phe Phe Glu Val Lys Ala His Ile Val Thr Pro Lys Asp Glu

225					230					235				240
Arg	Phe	Thr	Ala	Val	Trp	Gln	Pro	Ser	Asp	Ala	Cys	Glu	Ser	Tyr
				245					250					255
Asp	Glu	Glu	Gly	Arg	Leu	Leu	His	Arg	Pro	Leu	Ala	Glu	His	Val
			260					265					270	
Asn	Arg	Ile	Thr	Gly	Gln	Pro	Ala	Ile	Val	Thr	Ser	Tyr	Asn	Asp
		275					280					285		Lys
Arg	Glu	Ser	Glu	Pro	Ala	Pro	Leu	Pro	Phe	Ser	Leu	Ser	Ala	Leu
	290					295					300			Gln
Ile	Glu	Ala	Ala	Lys	Lys	Phe	Gly	Leu	Ser	Ala	Gln	Asn	Val	Leu
305					310					315				320
Ile	Cys	Gln	Lys	Leu	Tyr	Glu	Thr	His	Lys	Leu	Ile	Thr	Tyr	Pro
			325						330					335
Ser	Asp	Ser	Arg	Tyr	Leu	Pro	Glu	Glu	His	Phe	Ala	Gly	Arg	His
			340				345						350	Ser
Val	Met	Asn	Ala	Ile	Gly	Val	His	Ala	Pro	Asp	Leu	Leu	Pro	Gln
	355						360						365	Pro
Ala	Val	Asn	Pro	Asp	Thr	His	Asn	Arg	Cys	Trp	Asp	Asp	Lys	Lys
	370					375					380			Val
Asp	Ala	His	His	Ala	Ile	Ile	Pro	Thr	Ala	Arg	Thr	Ser	Asn	Val
385					390					395				400
Leu	Thr	Asp	Asn	Glu	Ala	Lys	Val	Tyr	Asn	Leu	Ile	Ala	Arg	Gln
			405						410					415
Leu	Met	Gln	Phe	Cys	Pro	Asp	Ala	Val	Phe	Arg	Lys	Cys	Val	Ile
		420					425						430	Glu
Leu	Asp	Ile	Ala	Lys	Gly	Lys	Phe	Ile	Ala	Lys	Ala	Arg	Phe	Leu
	435						440					445		Ala
Glu	Ala	Gly	Trp	Arg	Thr	Leu	Leu	Gly	Asn	Lys	Glu	Arg	Asp	Glu
	450					455					460			Glu
Asn	Asp	Gly	Thr	Pro	Leu	Pro	Val	Val	Ala	Lys	Gly	Asp	Glu	Leu
465					470					475				480
Cys	Glu	Lys	Gly	Glu	Val	Val	Glu	Arg	Gln	Thr	Gln	Pro	Pro	Arg
			485						490					495
Phe	Thr	Asp	Ala	Thr	Leu	Leu	Ser	Ala	Met	Thr	Gly	Ile	Ala	Arg
			500					505					510	Phe
Val	Gln	Asp	Lys	Asp	Leu	Lys	Lys	Ile	Leu	Arg	Ala	Thr	Asp	Gly
	515						520					525		Leu
Gly	Thr	Glu	Ala	Thr	Arg	Ala	Gly	Ile	Ile	Glu	Leu	Leu	Phe	Lys
	530					535					540			Arg
Gly	Phe	Leu	Glu	Lys	Lys	Gly	Arg	Tyr	Ile	His	Ser	Thr	Glu	Pro
545					550					555				560
Arg	Ala	Leu	Ile	His	Ser	Leu	Pro	Glu	Leu	Ala	Ala	Arg	Pro	Asp
			565					570					575	Met
Thr	Ala	His	Trp	Glu	Ser	Val	Leu	Thr	Gln	Ile	Ser	Glu	Lys	Gln
			580					585					590	Cys
Arg	Tyr	Gln	Asp	Phe	Met	Gln	Pro	Leu	Val	Gly	Thr	Leu	Tyr	Gln
	595						600					605		Leu
Ile	Asp	Gln	Ala	Arg	Ser	Thr	Pro	Val	Lys	Arg	Phe	Arg	Gly	Met
	610					615					620			Val
Ala	Pro	Gly	Ala	Gly	Ala	Lys	Lys	Pro	Phe	Lys	Lys	Lys	Lys	Ser
625					630					635				640
Ala														

<210> 9370

<211> 212

<212> PRT

<213> Enterobacter cloacae

<400> 9370

Leu Ile Ala Lys Asn Asp Ile Leu Ser Cys Pro Ser Lys Glu Ser Ser

1				5					10					15
His	Gln	Glu	Asn	Gln	Val	Lys	Glu	Ile	Ser	Ala	Trp	Val	Ala	Pro Met
			20					25					30	
Glu	Thr	Leu	Pro	Val	Ser	Leu	Ser	Pro	Ile	Ala	Ala	Met	Gln	Lys Lys
		35					40					45		
His	Phe	Gly	Ala	Val	Leu	Asn	Pro	Thr	Arg	Trp	Trp	Gly	Arg	Met Pro
	50					55					60			
Arg	Leu	Phe	Trp	Leu	Val	Ala	Leu	Phe	Val	Gly	Tyr	Leu	Glu	Arg Arg
65					70					75				80
Lys	Ala	Arg	Leu	Thr	Pro	Val	Leu	Arg	Ser	Leu	Leu	Met	Thr	Arg Val
				85					90					95
Ser	Gln	Ile	Cys	His	Cys	Ala	Phe	Cys	Ile	Asp	Ala	Asn	Ser	Leu Arg
			100					105					110	
Leu	Ala	Glu	Arg	Ser	Gly	Ala	Leu	Asp	Lys	Val	Gln	Ala	Val	Ser Asp
		115					120					125		
Trp	Gln	Asn	Ser	Thr	Leu	Phe	Ser	Glu	Glu	Glu	Arg	Ala	Ala	Leu Ala
		130				135					140			
Tyr	Ala	Glu	Ala	Val	Thr	Ala	Thr	Pro	Pro	Glu	Val	Asp	Glu	Asn Ile
145					150					155				160
Lys	Ser	Leu	Leu	Lys	Arg	His	Phe	Thr	Glu	Glu	Thr	Ile	Thr	Glu Met
				165					170					175
Thr	Ala	Leu	Ile	Ala	Phe	Gln	Asn	Leu	Ser	Ala	Arg	Phe	Asn	Ala Ala
			180					185					190	
Leu	Asp	Ile	Pro	Thr	Gln	Gly	Leu	Cys	Ala	Thr	Phe	Lys	Gly	Lys Pro
		195					200					205		
His	Ala	Gly												
		210												

<210> 9371

<211> 417

<212> PRT

<213> Enterobacter cloacae

<400> 9371

Thr	Thr	Phe	Tyr	Leu	Pro	Asp	Glu	Val	Ala	Met	Ser	Leu	Ser	Val	Thr
1				5					10					15	
Arg	Glu	Asn	Phe	Asp	Glu	Trp	Met	Met	Pro	Val	Tyr	Ala	Pro	Ala Ala	
			20					25					30		
Phe	Ile	Pro	Val	Arg	Gly	Glu	Gly	Ser	Arg	Leu	Trp	Asp	Gln	Gln Gly	
		35					40					45			
Lys	Glu	Tyr	Ile	Asp	Phe	Ala	Gly	Gly	Ile	Ala	Val	Asn	Ala	Leu Gly	
		50				55					60				
His	Ala	Asn	Pro	Ala	Leu	Arg	Gln	Ala	Leu	Asn	Asp	Gln	Ala	Ala Lys	
65					70					75				80	
Phe	Trp	His	Thr	Gly	Asn	Gly	Tyr	Thr	Asn	Glu	Pro	Ala	Leu	Arg Leu	
				85					90					95	
Ala	Lys	Lys	Leu	Ile	Asp	Ala	Thr	Phe	Ala	Glu	Lys	Val	Phe	Phe Cys	
			100					105					110		
Asn	Ser	Gly	Ala	Glu	Ala	Asn	Glu	Ala	Ala	Leu	Lys	Leu	Ala	Arg Lys	
		115					120					125			
Tyr	Ala	His	Asp	Lys	Phe	Gly	Ala	His	Lys	Ser	Gly	Ile	Val	Ala Phe	
		130				135					140				
Lys	Asn	Ala	Phe	His	Gly	Arg	Thr	Leu	Phe	Thr	Val	Ser	Ala	Gly Gly	
145					150					155				160	
Gln	Pro	Ser	Tyr	Ser	Gln	Asp	Phe	Ala	Pro	Leu	Pro	Pro	Asp	Ile Arg	
				165					170					175	
His	Ala	Ala	Tyr	Asn	Asp	Leu	His	Ser	Ala	Ser	Glu	Leu	Ile	Asp Asp	
			180					185					190		
Thr	Thr	Cys	Ala	Val	Ile	Val	Glu	Pro	Met	Gln	Gly	Glu	Gly	Gly Val	
		195					200					205			
Met	Pro	Ala	Gln	Lys	Ala	Phe	Leu	Gln	Gly	Leu	Arg	Glu	Leu	Cys Asp	

210	215	220
Arg His Asn Ala Val	Leu Ile Phe Asp Glu Val	Gln Thr Gly Val Gly
225	230	235
Arg Thr Gly Glu Leu	Tyr Ala Tyr Met His Tyr	Gly Val Thr Pro Asp
	245	250
Val Leu Ser Thr	Ala Lys Ala Leu Gly Gly	Phe Pro Val Gly Ala
	260	265
Met Leu Thr Thr	Glu Lys Phe Ala Ser Val	Met Thr Val Gly Thr His
	275	280
Gly Thr Thr Tyr	Gly Gly Asn Pro Leu Ala Thr	Ala Val Ala Gly Gln
	290	295
Val Leu Asp Ile Ile	Asn Thr Pro Glu Val Leu Asn	Gly Val Lys Gln
305	310	315
Arg His Gln Trp Phe	Val Glu Arg Leu Thr Ala Ile	Asn Ser Lys Thr
	325	330
Gly Leu Phe Lys Glu	Ile Arg Gly Leu Gly Leu Leu	Ile Gly Cys Glu
	340	345
Leu Ala Pro Glu Phe	Ala Gly Lys Ala Lys Leu Ile	Ser Gln Glu Ala
	355	360
Ala Lys Gln Gly Val	Met Val Leu Ile Ala Gly Ala	Asn Val Val Arg
	370	375
Phe Ala Pro Ala Leu	Ile Val Ser Glu Glu Glu Val	Arg Thr Gly Leu
385	390	395
Asp Arg Phe Ala Leu	Ala Cys Glu Gln Val Lys Ser	Gly Val Ser Ser
	405	410
		415

<210> 9372

<211> 172

<212> PRT

<213> Enterobacter cloacae

<400> 9372

Leu Lys Val Arg	Lys Asp Ile Met Arg	Lys Leu Thr Ala Leu Phe Val
1	5	10
Ala Ser Thr Leu	Ala Leu Gly Ala Thr Ser	Met Ala Phe Ala Ala Asp
	20	25
Thr Ala Thr Thr	Ala Ala Pro Thr Glu Gly	Lys Met Met His
	35	40
His Lys Gly Lys	Pro Gly Met His His Glu Met	Met Met Phe Lys Asp
	50	55
Leu Asn Leu Thr	Asp Ala Gln Lys Gln Gln Ile	Arg Asp Ile Met Lys
65	70	75
Ser Gln Arg Asp	Gln Met Lys Arg Pro Pro	Leu Glu Glu Arg Arg Ala
	85	90
Met His Asp Ile	Ile Ala Ser Asp Ser Phe	Asp Lys Ala Lys Ala Glu
	100	105
Ala Gln Ile Asp	Lys Met Ala Glu Gln His Lys	Ala Arg Met Leu Ala
	115	120
His Met Glu Thr	Gln Asn Lys Ile Tyr Asn Ile	Leu Thr Pro Glu Gln
	130	135
Lys Lys Gln Phe	Asn Ala Asn Phe Glu Lys Arg	Leu Thr Glu Arg Ala
145	150	155
Ala Pro Glu Gly	Lys Met Pro Ala Pro Thr	Glu
	165	170

<210> 9373

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 9373

Pro	Asn	Lys	Arg	Glu	Val	Ile	Met	Glu	Lys	Lys	His	Ile	Tyr	Leu	Phe
1				5				10						15	
Cys	Ser	Ala	Gly	Met	Ser	Thr	Ser	Leu	Val	Ser	Lys	Met	Arg	Ala	
			20					25				30			
Gln	Ala	Glu	Lys	Tyr	Glu	Val	Pro	Val	Val	Ile	Glu	Ala	Phe	Pro	Glu
		35					40				45				
Thr	Leu	Ala	Gly	Glu	Lys	Gly	Gln	Thr	Ala	Asp	Val	Ile	Leu	Leu	Gly
	50					55				60					
Pro	Gln	Ile	Ala	Tyr	Met	Leu	Pro	Glu	Ile	Gln	Arg	Leu	Leu	Pro	Asn
65					70					75					80
Lys	Pro	Val	Glu	Val	Ile	Asp	Ser	Val	Leu	Tyr	Gly	Lys	Ile	Asp	Gly
				85					90					95	
Leu	Gly	Val	Leu	Lys	Ala	Ala	Val	Ala	Ala	Ile	Lys	Lys	Ala	Ala	Asn
			100					105					110		

<210> 9374

<211> 458

<212> PRT

<213> Enterobacter cloacae

<400> 9374

Tyr	Ala	Lys	Gly	Asp	Ile	Met	Gln	Gln	Lys	Leu	Lys	Val	Val	Thr	Ile
1				5					10					15	
Gly	Gly	Gly	Ser	Ser	Tyr	Thr	Pro	Glu	Leu	Leu	Glu	Gly	Phe	Leu	Lys
			20					25					30		
Arg	Tyr	His	Glu	Leu	Pro	Val	Ser	Glu	Leu	Trp	Leu	Val	Asp	Val	Glu
		35					40				45				
Glu	Gly	Gln	Glu	Lys	Leu	Asn	Ile	Ile	Phe	Glu	Leu	Cys	Lys	Arg	Met
	50					55					60				
Val	Glu	Lys	Ala	Gly	Val	Pro	Leu	Thr	Met	His	Lys	Thr	Leu	Asp	Arg
65					70					75					80
Arg	Leu	Ala	Leu	Lys	Asp	Ala	Asp	Phe	Val	Thr	Thr	Gln	Leu	Arg	Val
				85				90						95	
Gly	Gln	Leu	Lys	Ala	Arg	Glu	Leu	Asp	Glu	Arg	Ile	Pro	Leu	Ser	His
			100					105					110		
Gly	Tyr	Leu	Gly	Gln	Glu	Thr	Asn	Gly	Ala	Gly	Gly	Leu	Phe	Lys	Gly
	115						120					125			
Leu	Arg	Thr	Ile	Pro	Val	Ile	Phe	Asp	Ile	Ile	Lys	Asp	Val	Glu	Glu
	130					135						140			
Ile	Cys	Pro	Asn	Ala	Trp	Val	Ile	Asn	Phe	Thr	Asn	Pro	Ala	Gly	Met
145					150					155					160
Val	Thr	Glu	Ala	Val	Tyr	Arg	His	Thr	Gly	Phe	Lys	Arg	Phe	Ile	Gly
				165					170					175	
Val	Cys	Asn	Ile	Pro	Ile	Gly	Met	Lys	Met	Phe	Ile	Arg	Asp	Val	Leu
		180						185					190		
Glu	Leu	Thr	Glu	His	Asp	Asp	Leu	Ser	Ile	Asp	Leu	Phe	Gly	Leu	Asn
	195						200					205			
His	Met	Val	Phe	Ile	Lys	Asp	Val	Ile	Val	Asn	Gly	Gln	Ser	Arg	Phe
	210					215						220			
Ala	Glu	Leu	Leu	Asp	Gly	Val	Ala	Ser	Gly	Arg	Leu	Thr	Ala	Ala	Ser
225					230					235					240
Val	Lys	Asn	Ile	Phe	Asp	Leu	Pro	Phe	Ser	Glu	Gly	Leu	Ile	Arg	Ser
				245					250					255	
Leu	Asn	Leu	Leu	Pro	Cys	Ser	Tyr	Leu	Leu	Tyr	Tyr	Phe	Lys	Gln	Lys
		260						265					270		
Glu	Met	Leu	Ala	Ile	Glu	Met	Gly	Glu	Tyr	Tyr	Lys	Gly	Gly	Ala	Arg
		275					280					285			

Ala Gln Val Val Gln Lys Val Glu Lys Gln Leu Phe Asp Leu Tyr Lys
 290 295 300
 Asp Pro Asn Leu Asn Val Lys Pro Lys Glu Leu Glu Gln Arg Gly Gly
 305 310 315 320
 Ala Tyr Tyr Ser Asp Ala Ala Cys Glu Val Ile Asn Ala Ile Tyr Asn
 325 330 335
 Asp Lys Gln Ala Glu His Tyr Val Asn Val Pro His His Gly His Ile
 340 345 350
 Asp Asn Ile Pro Ala Asp Trp Ala Val Glu Met Thr Cys Ile Leu Gly
 355 360 365
 Arg Glu Gly Ala Lys Pro His Pro Arg Ile Thr His Phe Asp Asp Lys
 370 375 380
 Val Met Gly Leu Ile His Thr Ile Lys Gly Phe Glu Val Ala Ala Ser
 385 390 395 400
 Asn Ala Ala Leu Ser Gly Glu Leu Asn Asp Val Leu Leu Ala Leu Asn
 405 410 415
 Leu Ser Pro Leu Val His Ser Asp Arg Asp Ala Glu Lys Leu Ala Ser
 420 425 430
 Glu Met Ile Leu Ala His Glu Lys Trp Leu Pro Asn Phe Ala Ala Thr
 435 440 445
 Val Glu Lys Leu Lys Leu Thr His Arg
 450 455

<210> 9375

<211> 190

<212> PRT

<213> Enterobacter cloacae

<400> 9375

Ala Gln Ile Thr Arg Leu Tyr Glu Glu Glu Leu Met Thr Tyr Gln Gln
 1 5 10 15
 Ala Gly Arg Ile Ala Val Leu Lys Arg Val Ala Gly Trp Val Ile Phe
 20 25 30
 Ile Pro Ala Leu Ile Ser Thr Leu Ile Ser Val Leu Lys Phe Met Tyr
 35 40 45
 Asp His Ser Glu Lys Gln Pro Gly Ile Asn Ala Val Met Leu Asp Phe
 50 55 60
 Ala His Val Met Ile Glu Met Met Arg Phe Asn Thr Pro Phe Leu Asn
 65 70 75 80
 Val Phe Trp Phe Asn Ser Pro Thr Pro Asp Phe His His Gln Leu Asn
 85 90 95
 Val Gly Phe Trp Ile Ile Tyr Ala Leu Ile Phe Ile Ala Met Ala Leu
 100 105 110
 Gln Ala Ser Gly Ala Arg Met Ser Arg Gln Thr Arg Phe Leu Arg Glu
 115 120 125
 Gly Phe Glu Asp Gln Leu Ile Leu Glu Lys Ala Lys Gly Pro Asp Gly
 130 135 140
 Met Ser Arg Glu Gln Ile Glu Ser Arg Ile Val Val Pro Arg His Thr
 145 150 155 160
 Ile Phe Val Gln Phe Phe Pro Leu Tyr Ile Leu Pro Val Ile Ile Ile
 165 170 175
 Val Ala Gly Tyr Phe Phe Phe Thr Leu Leu Gly Phe Leu
 180 185 190

<210> 9376

<211> 312

<212> PRT

<213> Enterobacter cloacae

<400> 9376

Asn Lys Thr Arg Phe Gly Ile Val Leu Ile Gln Lys Met Lys Glu Glu

1	5	10	15
Asn Ile Ala Met	Leu Phe Ala Ala	Phe Tyr Asn Leu Leu	Pro Phe Tyr
20		25	30
Gly Arg Leu Val	Ile Asp Pro Gln	Glu Ser Phe Arg	Asp Arg Asp Gly
35		40	45
Leu Phe Leu Cys	Cys Thr Asp Ser	Leu Asn Lys Met	Lys Leu Leu Lys
50		55	60
Thr Val Pro Ala	Ala Leu Met Leu	Ala Gly Gly Val	Phe Ala Ser Leu
65		70	75
Asn Ala Thr Ala	Asp Asp Thr Val	Phe Thr Val Met	Asp Asp Pro Ser
	85	90	95
Thr Ala Lys Lys	Pro Phe Glu Gly	Asn Val Asn Ala	Gly Tyr Leu Ala
100		105	110
Gln Ser Gly Asn	Thr Lys Ser Ser	Leu Thr Ala Asp	Ser Thr Leu
115		120	125
Thr Trp Tyr Gly	Asn Thr Thr Ala	Trp Ser Leu Trp	Gly Asn Ala Ser
130		135	140
Asn Thr Ser Ala	Asn Asp Gln Arg	Ser Ser Glu Lys	Tyr Ala Val Gly
145		150	155
Gly Arg Ser Arg	Tyr Asn Met Thr	Asp Tyr Asp Tyr	Leu Phe Gly Gln
	165	170	175
Ala Ser Trp Leu	Thr Asp Arg Tyr	Asn Gly Tyr Arg	Gln Arg Asp Val
180		185	190
Val Thr Ala Gly	Tyr Gly Arg Gln	Phe Leu Asn Gly	Pro Val His Ser
195		200	205
Leu Arg Phe Glu	Phe Gly Pro Gly	Val Arg Tyr Asp	Glu Tyr Thr Asn
210		215	220
Gly Glu Asp Glu	Thr Gln Pro Leu	Gly Tyr Ala Ser	Gly Thr Tyr Ala
225		230	235
Trp Gln Met Thr	Asp Asn Ala Lys	Phe Thr Gln Gly	Val Ser Val Phe
	245	250	255
Gly Ala Glu Asp	Thr Thr Leu Asn	Ser Glu Ser Ala	Leu Asn Val Ala
260		265	270
Ile Asn Glu His	Phe Gly Leu Lys	Val Ala Tyr Asn	Val Thr Trp Asn
275		280	285
Ser Ser Pro Pro	Asp Ser Ala Pro	Glu His Thr Asp	Arg Arg Thr Thr
290		295	300
Ile Ser Leu Gly	Tyr Lys Met		
305		310	

<210> 9377

<211> 646

<212> PRT

<213> Enterobacter cloacae

<400> 9377

Gly Tyr Lys Met	Pro Val Ile Thr	Leu Pro Asp Gly	Ser Gln Arg His
1	5	10	15
Phe Asp His Ala	Val Ser Pro Met	Asp Val Ala Leu	Asp Ile Gly Pro
20		25	30
Gly Leu Ala Lys	Ala Thr Ile Ala	Gly Arg Val Asn	Gly Glu Leu Val
35		40	45
Asp Ala Ser Asp	Leu Ile Glu Ser	Asp Ala Thr Leu	Ala Ile Ile Thr
50		55	60
Ala Lys Asp Glu	Glu Gly Leu Glu	Ile Ile Arg His	Ser Cys Ala His
65		70	75
Leu Leu Gly His	Ala Ile Lys Gln	Leu Trp Pro Asn	Thr Lys Met Ala
	85	90	95
Ile Gly Pro Val	Ile Asp Asn Gly	Phe Tyr Tyr Asp	Val Asp Leu Asp
100		105	110
His Thr Leu Thr	Gln Glu Asp Ile	Asp Ala Leu Glu	Lys Arg Met His

[illegible]